

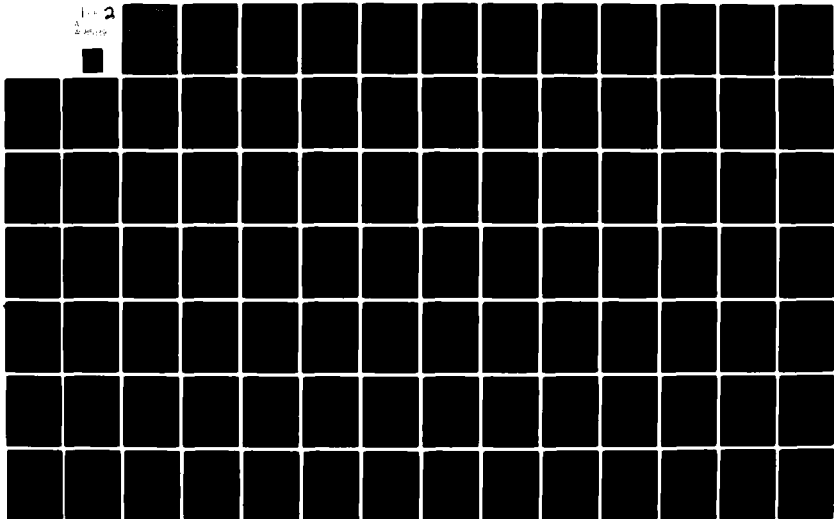
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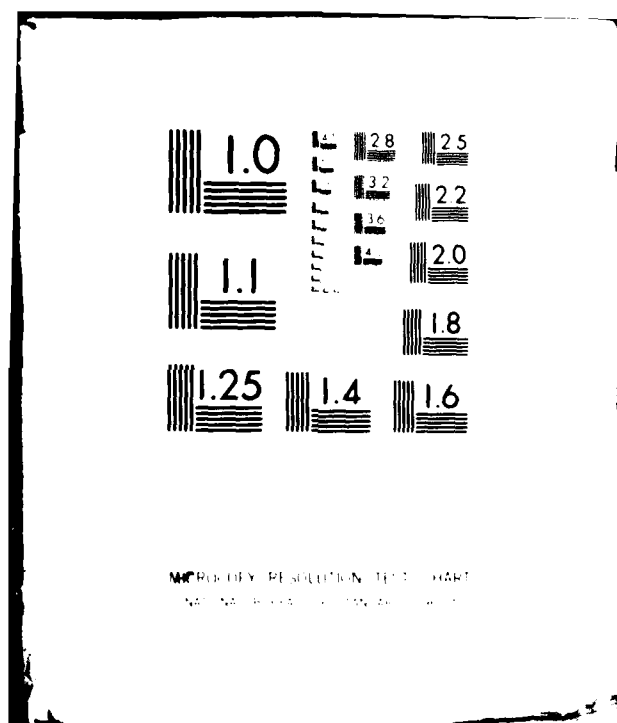
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SCIENTIFIC PERSONNEL RESOURCE INVENTORY: LIST AND INDEX TO RESE--ETC(U)
JUN 72 C KERBY, A J MCERLEAN
OLP/SI-REF-72-11

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LEVEL II

SCIENTIFIC PERSONNEL RESOURCE INVENTORY:
LIST AND INDEX TO RESEARCH SCIENTISTS
INVOLVED WITH THE ESTUARINE ENVIRONMENT,
ESPECIALLY THE CHESAPEAKE BAY

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SI/OES 73

Compiled by

CATHERINE KERBY AND ANDREW J. McERLEAN

EPA

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JUN 6 1980

This project is supported by grants from the
U.S. Army Corps of Engineers, Baltimore District,
through the National Science Foundation to the
Smithsonian Institution, the University of Maryland
and the Virginia Institute of Marine Science

Smithsonian
Oceanography + Limnology Program
475-3

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NRI Reference No. 72-83

June 1972

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LIST AND INDEX TO RESEARCH SCIENTISTS
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Compiled by

⑩ CATHERINE KERBY ANDREW J. McERLEAN

⑫ 127

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This project is supported by grants from the
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⑪ Jun 73

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June 1972

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INTRODUCTION

The U. S. Army Corps of Engineers, Baltimore District, has launched an extensive review of the existing, social, economic, legal and environmental condition of the Chesapeake Bay. The objective of this review is the development of a plan to provide the Corps with the basic information required to permit the proper management of the Bay and its associated environs. As a part of the biological portion of this project, an effort was made to identify and inventory researchers, especially biologists, who are active in Chesapeake Bay research. Since the number of people involved in Bay research has increased greatly during the last decade, it has become impossible for a researcher in a particular discipline to personally know all other scientists with the same interests. Prior to this report, no recorded information existed that identified the estuarine community of scientists and their research capabilities and expertise. This information is fundamental to the present assessment of existing biological knowledge and to the future prospect of providing managers with useful data for prediction of possible effects of pollutants on the biota or to solve specific biological problems. Scientists can benefit from this inventory by becoming aware of other researchers and their interests. It will enable them to cooperate on projects with experts with similar interests and to avoid duplication of efforts.

Approximately 1200 workers were contacted in order to form this list, including members of the Chesapeake Research Consortium (CRC), the Atlantic Estuarine Research Society (AERS), the New England Estuarine Research Society (NEERS), and the National Shellfisheries Association, Inc. (NSA).

The questionnaire (pp. 186-187) which was sent to each researcher was a slightly modified version of the form which TRIGOM used in surveying personnel in preparing its second edition (May, 1971) of the Directory of Marine Research Facilities and Personnel in Maine. The modified questionnaire format includes the name of the researcher, highest degree, business address and phone number, and current estuarine research interests or areas of specialization in both descriptive terms and by keyword designations.

Although each individual was requested to check only three of these keywords, a number of respondents checked more. Since it was not possible to edit or qualify these choices, they were reproduced verbatim. Some editorial privilege, including condensing information, was exercised with replies to "current estuarine research interests or areas of specialization".

Replies to the questionnaires were indexed by general interest areas (letters) and subdivisions within these interest areas (numbers). Thus "B-8" indicates "(B) Biological Sciences, (8) Estuarine Ecology". Write-in notations for the category of "other" research interests were also indexed. Both

types of notations were keyed and indexed by numbers which were assigned to each specialist.

The first compilation of this list includes 644 researchers. Of this number, 314 have PhD degrees, 178 have Master's degrees, 105 have Bachelor's degrees, and nine have other types of degrees (including one with a MD and another with a VMD), and at least eight indicated that they will receive their PhD degrees shortly. Thirty-one scientists did not mention the highest degree they received (the notation -- indicates that no degree was given). In regard to the research interests as designated by keywords, the keyword "estuarine ecology" was checked by the most specialists, invertebrate biology was the next most popular category, followed by pollution research, marine biology (general), fisheries biology, environmental monitoring, and plankton ecology. Many specialists indicated interests in aquaculture, population dynamics, oceanography, biology of fishes, resource management, productivity, teaching and education and botany. Several researchers noted interests in micorbiology, water analysis, resource planning, physiology, commercial fishing, simulation modeling, biogeography, marine chemistry (general), parasitology, biochemistry, and sedimentology.

Fewer scientists mentioned the following interests: data systems, environmental legislation, engineering and instrumentation, pesticide monitoring, thermal properties, underwater diving, ornithology, marine geology (general), resource economics, hydrodynamics, vertebrate biology and hydrography. Only a few

specialists checked the keywords: geochemistry, physical engineering, physical properties, fish processing, health and medicine, organic chemistry, geochemistry, cold water biology, seaweed chemistry, seaweed extractives, human ecology, inorganic chemistry, marine physics (general), underwater photography, geomorphology, underwater acoustics, ocean law, navigation and seamanship, bioacoustics, geophysics, geochronology, mineralogy, and subsurface mapping. No scientists indicated specialities in geological engineering or electrical properties. One hundred and nineteen scientists specifically mentioned speciality areas other than the keyword designations provided.

This initial attempt at identifying estuarine specialists is definitely not complete. Unfortunately, a final date had to be set in order to meet a time deadline for this project. Other completed questionnaires have been received recently and should be included in an addendum to this inventory. It is recommended that this effort be continued in order that all qualified personnel be included in a future listing.

ACKNOWLEDGEMENTS

Many people cooperated in responding to the questionnaires; their help is appreciated. Special thanks are due to the Estuarine Research Federation and the National Shellfisheries Association, Inc. for the use of their membership lists in determining personnel to contact, to I. Myra Siegel (Assistant to the Director of TRIGOM) who permitted us to use their questionnaire form and who was very cooperative with regard to our efforts, and to Anna Hegenberger who typed the final compilation.

* 1

Aalto, Johan A.

MCE

Director
Annapolis Field Office
Environmental Protection Agency
Annapolis Science Center
Riva Road
Annapolis, Maryland 21401
(301) 268-5038 ext. 3

E-1, E-3, F-4

* 2

Abbe, George Robert

MS

Biologist
Department of Limnology
Academy of Natural Sciences of Philadelphia
Benedict Estuarine Laboratory
Benedict, Maryland 20612
(301) 274-3194

B-9, B-12, B-18

--Shellfish dynamics

--Epifaunal community studies

3

Abbott, Robert Tucker

PhD

Dupont Chair of Malacology
Department of Mollusks
Delaware Museum Natural History
Box 3937
Greenville, Delaware 19807
(302) 658-9111

B-12

--Molluskan biology; including taxonomy, curating, sorting
and housing

* 4

Adams, Donald Dick

MSC

Assistant Professor
Institute of Oceanography
Old Dominion University
Hampton Boulevard
P.O. Box 6173
Norfolk, Virginia 23508
(703) 489-8000 ext. 456

C-1, C-3, E-3

--Decomposition of organic matter, especially plankton

--Carbon and nitrogen budgets

--Gas chromatography of trace gases dissolved in sea water

--Cycles of trace metals

--Cycles of low molecular weight hydrocarbons

- 5 Adams, Sidney Marshall MS
 Biological Technician
 Department of Commerce
 National Marine Fisheries Service
 3209 1/2 Arendell Street
 Morehead City, North Carolina 28537
 B-8
 --Energetics of fish inhabiting Zostera marina communities;
 including biomass sampling, respiration studies,
 bomb colorimetry, and food consumption studies
- 6 Adler, Cyrus MS
 President
 Offshore Sea Development Corporation
 99 Nassau Street
 New York, New York 10038
 B-2, E-3, G-5
 --Shore processes
 --Marshlands, including their growth and decline
 --Thermal pollution
 --Aquaculture of bivalves
 --Biological indications of pollution
 --Use of sludge to build up sand dunes
- * 7 Allen, Linda Dye BS
 Faculty Research Assistant
 Natural Resources Institute
 University of Maryland
 Chesapeake Biological Laboratory
 Box 38
 Solomons, Maryland 20688
 (301) 326-4281 ext. 52
 B-1, B-8, E-3, G-7
 --Zooplankton; including pre-and post-operative studies
 of thermal pollution by an atomic power plant and
 biomass determinations of copepods, especially
Acartia tonsa, A. clausi, and Eurytemora affinis
- * 8 Allison, James Thurston BS
 MGR Water Quality and Fish Mortality Studies -
 Biologist 3
 Water Quality Investigation and Enforcement Division
 Maryland Department of Water Resources
 11-13 Lincoln Court-Chinquapin Round Road
 Annapolis, Maryland 21403
 (301) 267-5675
 B-1, B-5, B-8, B-9, B-12, B-13, B-17, C-1, C-9, E-1, E-3
 --Pollution biology; including studies of water quality,
 biota surveys, and plankton analyses
 --Population studies of Orconectes virilis

9 Alperin, Irwin M. MS
Executive Director
Atlantic States Marine Fisheries Commission
1717 Massachusetts Avenue, N.W.
Washington, D.C. 20036
(202) 232-6692

B-8, B-9, H-2

--Coordination of marine fishery research and management programs carried out by the state fishery agencies of the coastal states from Maine to Florida

--Fisheries biology, especially of species of fishes of particular interest to sport fishermen including striped bass, bluefish, weakfish, summer flounder, winter flounder and others in the vicinity of Long Island, New York and on the lower Hudson River; including studies of migratory behavior, seasonality, abundance and catch rates; investigation of the abundance and seasonality of all species of fishes inhabiting the surf zone of the south shore of Long Island, New York

* 10 Andersen, Aven Mayer PhD
Assistant Professor
Natural Resources Institute
University of Maryland
College Park, Maryland 20742
(301) 454-5641

B-9, B-18, G-6

--Fisheries biology; including dynamics of potential or currently-exploited fisheries resources of Chesapeake Bay and vicinity and studies of the beneficial uses of thermal waste in fish production

(11) Anderson, Franz E. PhD
Associate Professor
Earth Sciences
University of New Hampshire
Durham, New Hampshire 03824
(603) 862-1718

D-1, D-8, E-2

--Factors affecting the suspended sediment load in estuarine waters; including the effect of waves in resuspending fine-grained sediment

- * 12 Andrews, Jay Donald PhD
 Senior Marine Scientist
 Department of Malacology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111
 B-2, B-8, B-9, B-12
 --Fouling Organisms
 --Biological oceanography; experience with Corps on
 dams, dredging, etc.
 --Studies on Dermocystidium and Minchinia nelsoni (MSX)
 --Molluskan biology; including genetics - breeding and
 selection for superior oysters (disease resistance,
 growth quality, breeding characteristics); adult
 and larval ecology; taxonomy; setting, epizootology
 --Management of shellfisheries
- 13 Arndt, Rudolf G. PhD
 Research Biologist
 Ichthyological Associates
 Box 35, R.D. 2
 Middletown, Delaware 19709
 (302) 378-8622
 A-1, B-1, B-8
 --Distribution and abundance of Callinectes sapidus
- * 14 Arnold, Stephen Lloyd BA
 Graduate Student
 Department of Geography and Environmental Engineering
 The Johns Hopkins University
 Charles and 34th Streets
 Baltimore, Maryland 21218
 (301) 366-3300
 B-1, D-8, Palynology
 --Relation of the plant geography of the drainage basin
 of the Chesapeake Bay to the distribution of pollen
 in its waters and surface sediments
- ✓ * 15 Bailey, David Sandburg BS
 Chief, Biology Section
 Virginia State Water Control Board
 4010 West Broad Street
 Richmond, Virginia 23230
 (703) 770-5518
 B-5, B-8, B-17, C-7, C-9
 --General monitoring of the tributaries of the Bay
 in Virginia
 --Fish kill and oil spill investigations in the Chesapeake Bay
 --Coordination of estuarine activities with the Coast Guard,
 Army Corps of Engineers, and Virginia Institute of
 Marine Science

16 Baptist, John P. MS
Fishery Biologist
Department of Commerce
NOAA
National Marine Fisheries Service
Beaufort, North Carolina 28516
(919) 728-4595
B-8, E-1, Radioecology
--Evaluation of possible radiological effects of nuclear
power plant emissions on aquatic resources

* 17 Barnard, Robert Joseph MS
Supervisory Microbiologist
Bureau of Laboratories
D.C. Department of Human Resources
300 Indiana Avenue, N.W.
Room 6012
Washington, D.C. 20001
(202) 629-2108
B-10, B-11, B-13
--Microbiology; including a survey of areas of the
Chesapeake Bay for Vibrio parahaemolyticus

* 18 Barnard, Thomas Alexander MA
Assistant Marine Scientist
Department of Ecology - Pollution
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-5124 ext. 35
B-12, C-7, E-3
--Pesticide monitoring and biological effects (including
PCB's)
--Bio-assay methods and techniques using a variety of
estuarine pollutants such as heavy metals, oil
and pesticides
--Physiological effects on invertebrates of pollutants
at sublethal levels

19 Barrett, B.E. PhD
Supervisor
Marine Fisheries
State of New Hampshire Fish and Game
P.O. Box 101
Rye, New Hampshire 03870
B-1, B-9, B-12
--Research and management of estuarine species such as
Mya and Crassostrea in the Hampton and Great Bay
estuaries
--Studies of lobsters and other exploitable marine resources

- 20 Bartley, Clara H. PhD
 Research Associate in Microbiology
 Microbiology
 University of New Hampshire
 Spaulding Life Science
 Durham, New Hampshire
 B-8, B-13, E-3
 --Microbiological pollution of New Hampshire waters;
 including the effect of increasing numbers of
 waste disposal plants on microbiological pollution
 --Shellfish and their distribution in estuarine waters
 --Distribution of Vibrio parahaemolyticus
- * 21 Bason, William Holger MS
 Project Leader Eddystone Survey
 Ichthyological Associates
 Box 349
 2 S. Meadow Street
 Middletown, Delaware 19709
 (302) 378-8652
 B-5, B-8, B-9
 --Fisheries biology; including seasonal changes in
 populations, age, growth, food habits and
 sampling techniques, especially for Morone saxatilis
- 22 Bauereis, Elizabeth Ingram PhD
 Assistant Professor
 Biological Sciences College Parallel
 University of Delaware
 Delaware Tech Community College
 Georgetown, Delaware 19948
 (302) 856-7111
 B-12, B-16, C-2
 --Physiology of estuarine animals; including responses
 of marine mollusks to temperature, desiccation
 and factors influencing respiration
- 23 Bayley, Suzanne Elizabeth PhD
 Instructor
 Department of Environmental Engineering
 University of Florida
 Gainesville, Florida 32601
 (904) 392-0836
 B-8, G-5, H-2
 --Analysis of the productivity of Florida wetlands
 with emphasis on the interaction of the marsh
 and the activities of man

- * 24 Beal, Kenneth Lee MA
 Marine Biologist
 Environmental Resources Branch
 Corps of Engineers, Baltimore District
 Baltimore, Maryland 21203
 (301) 962-4713
 B-8, B-9, E-2
 --Fisheries biology
 --Navigation
 --Ecological interrelationships in Chesapeake Bay tributaries
- * 25 Bean, George A. PhD
 Associate Professor
 Botany Department
 University of Maryland
 College Park, Maryland 20740
 (301) 454-3816
 B-6, B-13, E-3
 --Diseases of rooted aquatic plants in the Rhode River
- 26 Bechtel, Timothy Joseph MA
 Research Fellow
 Zoology Department
 North Carolina State University
 Raleigh, North Carolina 27607
 (919) 755-2741
 B-8, E-3, G-5
 --Modeling persistent pesticide residues in estuarine ecosystems
 --Effects of low level pesticide stress on estuarine productivity
 --Chronic effects of general pollutants on fish and commercial invertebrates in estuaries
- 27 Belick, Francis Peter MS
 Biology Instructor
 Biology Department
 East Carolina University
 P.O. Box 2577
 Greenville, North Carolina 27834
 (919) 758-6718
 B-5, B-12, B-15
 --Internal anatomy and ecology of parastic copepods

* 28 Bender, Filmore E. PhD
 Associate Professor
 Agricultural and Resource Economics Department
 University of Maryland
 College Park, Maryland 20742
 (301) 454-3801
 A-1, E-3, G-1, G-5, G-6, H-1, H-2, H-3
 --Model of streams flowing into the Chesapeake Bay

* 29 Bender, Michael Earl PhD
 Assistant Director
 Applied Marine Science
 Virginia Institute Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111
 E-3, General ecology
 --Eutrophication
 --Water quality criteria
 --Pollution biology

30 Berkson, Harold PhD
 Specialist
 Environmental Policy
 Congressional Research Service
 Library of Congress
 Washington, D.C. 20540
 (202) 426-5881
 B-1, B-8, B-16, E-3, G-2
 --Estuarine ecology as influenced by pollution and other
 forms of habitat modification
 --Considerations of legislation, institutional policies
 and programs, and the interacting factors of socio-
 economics with ecology

31 Bettie, James F. BSEE
 Head
 Chesapeake Bay Ecological Program Office
 National Aeronautics and Space Administration
 Wallops Station
 Wallops Island, Virginia 23337
 (703) 824-3411 ext. 366
 A-2, G-1, Remote sensing applications
 --Identification, demonstration, and evaluation of
 practical applications of remote sensing from aircraft
 and spacecraft

- 32 **Bhattacharyya, Rameswar** PhD
 Associate Professor
 Naval Systems Engineering
 U.S. Naval Academy
 Annapolis, Maryland 21402
 (301) 267-3871
 F-3, G-6
 --Wave resistance of marine vehicles
- * 33 **Bickley, William E.** PhD
 Professor
 Department of Entomology
 University of Maryland
 College Park, Maryland 20742
 (301) 454-4239
 B-8, B-12, Entomology
 --Entomology; including developing an inventory of
 insect species in regions of the Chesapeake
 Bay; studying the relationship of variations in
 insect populations to differences in environmental,
 physical and chemical factors; and determining the
 role of insects in providing food for other animals
- 34 **Biggs, Robert Bruce** PhD
 Associate Professor
 Department of Geology
 University of Delaware
 Newark, Delaware 19711
 (302) 738-2813
 C-2, C-8, E-3
 --Trace metal geochemistry of waters and sediments
- 35 **Binmore, Tom V.** BA, BS
 Appraiser
 National Fisherman Magazine
 Camdon, Maine
 (617) 426-2712
 A-2, B-1, B-2, B-8, B-17, B-18, B-19, C-1, C-2, C-6, D-1,
 D-8, E-3, G-2, H-2
 --Inshore fisheries biology
- * 36 **Birkuner, Francis Bruno** PhD
 Associate Professor
 Civil Engineering Department
 University of Maryland
 College Park, Maryland 20742
 (301) 454-2440
 C-3, C-9, E-3
 --Determinations of concentrations of mercury, gold, and
 cadmium in Chesapeake Bay oysters.

- 37 Bishop, John Watson PhD
Associate Professor
Department of Biology
University of Richmond
Richmond, Virginia 23173
(703) 285-6275
B-17, B-19, G-5
--Plankton trophic ecology
--Systems analyses of primary production
--Intraspecific competition of benthic suspension feeders
- 38 Black, Dianne Elizabeth BA
Biological Laboratory Technician
Environmental Protection Agency
National Marine Water Quality Laboratory
P.O. Box 222
West Kingston, Rhode Island 02892
(401) 789-9751 ext. 53
B-2, B-9, E-3
--Fisheries biology; including culturing and rearing
from egg to adult; hormone induced spawning;
effects of elevated temperatures on all life stages,
especially of winter flounder, scup, tautog,
and mummichog; and effects of oxygen-depleted
water on eggs and larvae
- 39 Black, Robert Earl Lee PhD
Professor of Biology and Marine Science
Department of Biology and School of Marine Science
College of William and Mary
Williamsburg, Virginia 23185
(703) 229-3000 ext. 284
B-12, C-2, G-6
--Chemical embryology of invertebrates, especially
scyphozoan coelenterates
- * 40 Blanquet, Richard Steven PhD
Assistant Professor
Department of Biology
Georgetown University
37th and O Streets, N.W.
Washington, D.C. 20007
(202) 625-4126
B-1, B-7, B-12, C-2
--Adaptive responses of invertebrate organisms, especially
Chrysora quiquecirrha, to changes in their
environment, particularly with respect to temperature
--Studies of the nature and mode of action of sea
nettle nematocyst toxin and the chemical basis of
the feeding response in this species

* 41 Boesch, Donald F. PhD
Fulbright Research Fellow
Department of Zoology
University of Queensland
St. Lucia
Brisbane, Australia 4067

B-4, B-8, E-3

--Macrobenthos; including analysis of community structure, computer classification of "communities", and effects of seasonality and multiple-source pollution on the benthos

* 42 Boon, David D. BS
Faculty Research Assistant
Seafood Processing Laboratory
University of Maryland
Box 351
Crisfield, Maryland 21817
(301) 968-1655

A-3, C-1

--Shellfish biology; including red discoloration of oysters and soft-shelled clams, development of byproducts from shellfish waste, and the concentrations of iron, copper, zinc, and magnesium in crabmeat

✓ * 43 Boone, Joseph G. BS
Biologist III
Fisheries Management
Department of Natural Resources
Maryland Fish and Wildlife Administration
State Office Building
Annapolis, Maryland 21401
(301) 267-5361

B-8, B-9

--Fisheries biology; including ecology, annual assessment of population level and age structure, prediction of future abundance of food fishes, monitoring of estuarine fisheries, and movements and migrations of striped bass

44 Borrer, Arthur Charles PhD
Associate Professor of Zoology
Department of Zoology
University of New Hampshire
Spaulding Building
Durham, New Hampshire 03824
(604) 862-2107

B-8, B-14, Protozoology

--Systematics, ecology, and morphology of marine ciliated Protozoa, especially benthic forms

- 45 Bosch, Herman F. PhD
Investigator
Marine Biological Laboratory
Woods Hole, Massachusetts 02543
(617) 548-3705 ext. 533
B-8, B-12, B-17
--Behavior and ecology of estuarine cladocerans
- * 46 Bousfield, Edward Lloyd PhD
Chief Zoologist
Zoology Division
National Museum of Natural Sciences
Ottawa, Ontario
(413) 992-9764
B-4, B-8, B-12, Amphipod systematics
--Systematics, distribution, ecology and life history studies of estuarine and intertidal invertebrates, especially amphipod crustaceans of North America
--Distribution and dispersal of medium zooplankton of the middle and St. Lawrence Estuary in Eastern Canada
--Distribution of estuarine barnacles (Cirripedia) and larval stages in Eastern Canada
- 47 Bowman, Thomas Elliot PhD
Curator
Division of Crustacea
Smithsonian Institution
Washington, D.C. 20560
(202) 381-5781
B-4, B-12, B-17
--Systematics of estuarine planktonic copepods
- 48 Boynton, Walter Raymond MS
Graduate Student
Program in Marine Science
University of North Carolina
Chapel Hill, North Carolina 27514
(919) 942-6126
B-1, B-8, B-19, C-5, H-3
--Phytoplankton productivity
--Nutrient cycling
--Carbon budgets and salt marsh production
- * 49 Bradley, Brian Patrick PhD
Assistant Professor
Department of Biological Sciences
University of Maryland
5401 Wilkens Avenue
Baltimore, Maryland 21228
(301) 455-2244
B-18, G-5
--Calanoid copepods, with an emphasis on genetic variation and various selective bay pressures on Eurytemora affinis

*50 Brady, Derek Kingsley PhD
Associate Research Scientist
Department of Geography and Environmental Engineering
The Johns Hopkins University
Charles and 34th Streets
Baltimore, Maryland 21218
(301) 366-3300 ext. 709

E-3, F-3, G-5

- Statistical, hydrological and hydromechanical aspects of environmental engineering problems
- Simulation of the interactions between waste discharges (particularly thermal) and their receiving waters by computer modeling techniques

*51 Brehmer, Morris Leroy PhD
Director Environmental Operations
Environmental Control
Virginia Electric and Power Company
P.O. Box 26666
Richmond, Virginia 23261
(703) 771-3206

B-8, C-1, E-1

- Production of sufficient electrical energy to meet the needs of society in a manner which will result in a minimum impact on the environment

*52 Briddell, Charles David BS
Engineering Consultant
335 Hill-n-Dale Drive
York, Pennsylvania 17403

A-2, F-7, H-1, H-2, H-3

- Manufacturing tools for the oyster producing industry; including development of an automatic oyster shucking machine and of equipment for the oyster hatchery program
- Consultant for re-cycling of solid wastes

53 Bridges, David W. PhD
Research Associate
TRIGOM
96 Falmouth Street
Portland, Maine 04103
(207) 773-2981 ext. 306

B-5, B-8, B-16

- Ecology; including the development and adaptation of biomedical techniques to study organisms and the determination of the relative influence of environmental parameters such as temperature and salinity in addition to the biological phenomena of age and size on the tolerance of organisms to stressful situations
- Physiological ecology of fishes; including the evaluation of the effects of stress on fish blood properties

54 Bridges, W. Leigh MS
 Assistant Director
 Division of Marine Fisheries
 Massachusetts Department of Natural Resources
 100 Cambridge Street
 Boston, Massachusetts 02202
 (617) 727-3193
 B-8, B-9, B-18
 --Estuarine ecology
 --Fisheries biology; including population dynamics and
 anadromous fish research and development
 --Coastal alterations
 --Aquaculture
 --Effects of power generation on marine resources

55 Brooks, Albert Law PhD
 Oceanographer
 Division of Oceanography
 Navy Underwater Systems Center
 Ft. Trumbull
 New London, Connecticut 06320
 (203) 442-0771 ext. 2679
 B-17, B-18, E-2
 --Pollution-studies - related problems in the Long
 Island, Fishers Island, Block Island Sound area
 --Biology of zooplankton populations

* 56 Brooks, Arthus S. MS
 Research Assistant
 Department of Geography and Environmental Engineering
 The Johns Hopkins University
 Homewood Campus
 Charles and 34th Streets
 Baltimore, Maryland 21218
 (301) 366-3300 ext. 286
 B-8, B-17, B-19, E-1, E-3
 --Phytoplankton and primary production and how they
 are affected by thermal discharges

(57) Brown, James Thelbert MS
 Chief, Estuarine Studies Section
 North Carolina Department of Natural and Economic
 Research
 Division of Commercial and Sports Fisheries
 Arendell Street
 P.O. Box 769
 Morehead City, North Carolina 28557
 (919) 726-7021
 B-8, B-9, H-3
 --Development of comprehensive and enforceable plans
 for management of the North Carolina coastal Zone
 --Administration involving state permit system for
 applications to perform excavation and/or fill in
 estuarine waters and marshlands

- *58 Brown, Russell Guy PhD
 Professor
 Botany Department
 University of Maryland
 College Park, Maryland 20742
 (301) 454-3812
 B-6, G-6, Plant ecology
 --Taxonomy and ecology of vascular plants
 --Pollution effects on the Chesapeake Bay
- * 59 Brunori, Carlo Roland BS
 Watershed Manager
 Water Quality Investigation and Enforcement Division
 Department of Water Resources
 State Office Building
 Annapolis, Maryland 21401
 (301) 267-5553
 B-8, C-9, E-1
 --Water quality investigations and enforcement work
 related to water pollution of Chesapeake Bay
- * 60 Brush, Grace S. PhD
 Research Scientist
 Department of Geography and Environmental Engineering
 The Johns Hopkins University
 Charles and 34th Streets
 Baltimore, Maryland 21218
 (301) 366-3300 ext. 286
 B-6, B-17, D-8
 --Studying distributions of pollen in the water and
 sediment of the Chesapeake Bay and relating these
 distributions to the structure of vegetation
 surrounding the Bay and to circulation patterns
 within the Bay
- 61 Brush, Lucien M. Jr. PHD
 Professor
 Department of Geography and Environmental Engineering
 The Johns Hopkins University
 Charles and 34th Streets
 Baltimore, Maryland 21218
 (301) 366-3300 ext. 1035
 D-8, E-3, F-3
 --Physical hydrodynamics of estuaries as they relate to
 nutrient loading
 --Pollution in general, including sedimentation
 --Hydrology
 --Hydraulics
 --Geomorphology

- 62 Bubeck, Robert Clayton PhD
 Research Associate
 Department of Geological Sciences
 University of Rochester
 River Campus
 Rochester, New York 14627
 (716) 275-2410
 D-2, E-2, E-3
 --Geochemistry of estuaries; including geochemical processes in the water-sediment interface of coastal bays which exhibit permanent or extensive anoxic zones
 --Pollution monitoring of Chesapeake Bay
- 63 Buck, John D. PhD
 Associate Professor of Biology
 University of Connecticut
 Marine Research Laboratory
 Noank, Connecticut 06340
 (203) 536-4233
 B-13, E-3, G-6
 --Effects of thermal effluents on estuarine biota
 --Effects of treated sewage effluent on the microbiology and chemistry of estuarine waters
 --Nutrition and ecology of marine agar-digesting bacteria
 --Production of antimicrobial compounds by marine bacteria
- 64 Burbidge, Richard Greig PhD
 Professor
 School of Fisheries
 Catholic University of Valparaíso
 Valparaíso
 Chile
 B-8
 --Fisheries biology, especially of Alosa aestivalis; including distribution, growth, selective feeding, and energy transformations of the young-of-the-year in the James River, Virginia
- *65 Burchard, Robert Paul PhD
 Associate Professor
 Department of Biological Sciences
 University of Maryland, Baltimore County
 Catonsville, Maryland 21228
 (301) 455-2250
 B-8, B-13, B-18, E-3
 --Role of bacterial flora in estuaries, especially in regard to mineralization and the cycling of matter

*66 Burnett, Joseph Warren MD
Associate Professor
Department of Dermatology
University of Maryland
University Hospital
Baltimore, Maryland 21201
(301) 528-6098

B-1, B-10, B-12

--Chemical, anatomical, and toxicological aspects of
the sea nettle and related coelenterates

(67) Burrell, Victor Gregory PhD
Associate Marine Scientist
South Carolina Marine Resource Division
South Carolina Wildlife Department
217 Fort Johnson Road
Charleston, South Carolina 29412
(803) 795-2081 ext. 6

B-8, B-12, B-17

--Estuarine food chains, especially predator-prey
relationships

--Copepod taxonomy

* 68 Burton, Dennis Thorpe PhD
Research Assistant Curator of Limnology
Department of Limnology
Benedict Estuarine Laboratory
Academy of Natural Sciences of Philadelphia
Benedict, Maryland 20612
(301) 274-3194

B-16, C-2, E-3

--Effects of thermal loading and other stresses caused
by power plant operations on subtle physiological
responses of selected estuarine animals, especially
on various stages of the life cycles of silversides,
white perch, hogchokers, oysters, crabs, and grass
shrimp

69 Bush, Louise F. PhD
Professor of Zoology
Zoology Department
Drew University
Madison, New Jersey 07940
(201) 377-3000 ext. 369

B-1, B-12

--Systematics of Class Turbellaria (Phylum Platyhelminthes),
especially Kalptorhynchia

- *70 Butler, Philip A. PhD
 Biologist
 Research Consultant
 Gulf Breeze Laboratories
 Environmental Protection Agency
 Sabine Island
 Gulf Breeze, Florida 32561
 (904) 932-5326
 B-8, C-7, E-1
 --National monitoring program to determine levels of
 pesticide residues in estuarine fish, molluscs,
 and sediments
- *71 Buzas, Martin A. PhD
 Curator
 Paleobiology
 Smithsonian Institution
 10th and Constitution Avenue N.W.
 Washington, D.C. 20560
 (202) 381-5431
 B-8, B-18
 --Quantitative ecology of Foraminifera
 --Justification of relationship of environmental
 variables with species densities in space and time
- 72 Byrd, Mitchell Agee PhD
 Professor of Biology
 Department of Biology
 College of William and Mary
 Williamsburg, Virginia 23185
 (703) 229-3000 ext. 212
 B-8, B-14, B-20
 --Population dynamics of the osprey with particular
 emphasis on the role of environmental contaminants
 on productivity
- * 73 Byrne, Robert John PhD
 Senior Marine Scientist
 Department Head
 Department of Geological Oceanography
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext. 38
 --Coastal processes; including nearshore waves and
 currents, shoreline response, and dynamics of
 tidal inlets

- 74 Cable, Wayne Devere MS
 Fishery Biologist
 Department of Commerce
 National Marine Fisheries Service
 Cottage Street
 Milford, Connecticut 06460
 (203) 878-2450 ext. 26
 B-2, B-8, B-9
 --Ecology of bivalves, especially of larval forms
- 75 Cairnes, John Jr. PhD
 Director
 Center Environmental Studies
 Virginia Polytechnic Institute and State University
 Blacksburg, Virginia 24060
 (703) 552-6780
 B-18, E-3, G-1
 --Effects of stress on aquatic communities
 --Rapid biological information systems
- 76 Calabrese, Anthony PhD
 Fishery Biologist (Research)
 NOAA
 National Marine Fisheries Service
 Biological Laboratory
 Milford, Connecticut 06460
 (203) 878-2459
 B-1, B-2, B-8, B-9, B-12, E-3
 --Culturing of invertebrate organisms and studies of
 physiological stress when all stages of the life
 cycle of these organisms are exposed to environmental
 contaminants
- * 77 Calder, Dale Ralph PhD
 Associate Marine Scientist
 Department of Environmental Physiology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext. 33
 B-1, B-8, B-12
 --Taxonomy, ecology, and life history studies of marine
 invertebrates, especially Cnidarians
 --Control of Chrysaora quinquecirrha in the Chesapeake
 Bay

- * 78 Cargo, David Garrett MS
 Research Associate
 Natural Resources Institute
 University of Maryland
 Chesapeake Biological Laboratory
 Box 38
 Solomons, Maryland 20688
 (301) 326-4281 ext. 33
 B-8, B-12, C-4
 --Invertebrate fisheries and ecology, particularly of
 Coelenterata and Crustacea
- 79 Carlson, Frank Thomas MS
 Staff Assistant
 Office of Regional Planning
 U.S. Department of the Interior
 18th and C Streets, N.W.
 Washington, D.C. 20240
 (202) 343-8059
 B-8, H-3, Coastal zone planning
 --Estuarine ecology of anadromous fishes
- 80 Carpenter, Edward John PhD
 Assistant Scientist
 Biology
 Woods Hole Oceanographic Institution
 Water Street
 Woods Hole, Massachusetts 02543
 (617) 548-1400 ext. 314
 B-17, E-2, E-3
 --Phytoplankton ecology
 --Pollution biology
- 81 Carr, H. Arnold --
 Research Analyst
 Division of Marine Fisheries
 Commonwealth of Massachusetts
 Box 707
 Sandwich, Massachusetts 02563
 (617) 888-1155
 B-2, B-8, H-2
 --Research and management of shellfish and finfish
 resources in a coastal environment seriously
 affected by a No. 2 fuel oil spill of a large
 magnitude

- 82 Carriker, Melbourne Romaine PhD
 Director
 Systematics - Ecology Program
 Marine Biological Laboratory
 Woods Hole, Massachusetts 02543
 (617) 548-3705
 B-1, B-8, B-12
 --Biology of muricid gastropods, especially boring
 mechanism of Urosalpinx cinerea
- * 83 Carter, Thomas E. BA
 Biologist
 Annapolis Field Office
 Environmental Protection Agency
 Annapolis Science Center
 Annapolis, Maryland 21401
 (301) 268-5038 ext. 29
 B-1, C-9, E-3
- * 84 Carter, Worrall Reed III MS
 Biologist III
 Eastern Regional Office
 Maryland Department of Natural Resources
 Fish and Wildlife Administration
 Wye Mills, Maryland 21679
 (301) 827-8122
 B-9, E-1, H-2
- * 85 Carver, Thomas C. Jr. BS
 Pesticide Specialist
 Technical Advisory Division
 Department of Commerce
 NOAA
 National Marine Fisheries Service
 Interior Building Room 2559
 Washington, D.C. 20036
 (202) 343-2646
 --Administrative control concerned with the effects of
 pesticides on estuarine forms

- * 86 Casey, James F. BS
 Biologist III
 Fish and Wildlife Administration
 Maryland Department of Natural Resources
 State Office Building
 Annapolis, Maryland 21401
 (301) 267-5151
 B-6, B-8, B-9
 --Aquatic and marsh plant studies; including monitoring density and distribution, checking their condition and evaluating their effect on the shoreline and native organisms
 --Fisheries biology; including determining distribution, evaluating wetlands and marshes as broodstock and nursery grounds, studying the effect of dredge-and-fill on these local species, evaluating recreational and commercial fishing pressure and monitoring environmental conditions
 --Hard shell clams and Bay scallops studies; including monitoring density and distribution, interrelationships with other organisms, market fluctuations, catch conditions and environmental conditions
- * 87 Cassell, Harold Marvin BS
 Department of Chesapeake Bay Affairs
 State of Maryland
 State Office Building
 Annapolis, Maryland 21401
 (301) 267-5774
 B-8, H-2, Wetlands
 --Implementation of the Maryland Wetlands Law
- 88 Cassin, Joseph Mathews PhD
 Associate
 Institute Marine Science
 Adelphi University
 South Avenue
 Garden City, New York 11530
 (516) 294-8700
 B-13, B-17, B-18
 --Phytoplankton taxonomy and population dynamics
 --Distribution of E. coli and Streptococcus Group D in sediments
 --Sanitary implications of small boat pollution
 --Microbial ecology of Great South Bay and adjacent waters
 --Correlation of in situ fluorescence and bioluminescence with biotin in the New York Bight
 --Effect of dredging on phytoplankton population dynamics

89

Castagna, Michael MA
Senior Marine Scientist
Eastern Shore Laboratory
Virginia Institute of Marine Science
Wachapreague, Virginia 23480
(703) 787-3280
A-1, B-1, B-2, B-8
--Molluscan culture

90 Ceurvels, A. Russell BS
Chief of Laboratory
Division of Marine Fisheries
Commonwealth of Massachusetts
92 Fort Avenue
Salem, Massachusetts
(617) 745-3107
B-1, B-2, E-1

91 Chace, Fenner Albert Jr. PhD
Senior Zoologist
Department of Invertebrate Zoology
NMNH
Smithsonian Institution
Washington, D.C. 20560
(202) 381-5921
B-1, B-4, B-12
--Taxonomy, morphology and distribution of decapod
Crustacea

92 Chanley, Paul MA
Biologist
Hatchery
Shelter Island Oyster Company
Box 353
Greenport, New York 11944
(516) 477-1170
A-1, B-2, B-12
--Culture techniques, identification, behavior and
biology of bivalve molluscan larvae
--Mariculture of Mercenaria mercenaria, Crassostrea
virginica, Homarus americanus and Nereis virens

- * 93 Chapman, George Bunker PhD
 Professor and Chairman
 Department of Biology
 Georgetown University
 37th and O Streets N.W.
 Washington, D.C. 20007
 (202) 625-4126
 B-1, B-5, B-8, B-12, B-13, B-15, B-20
 --Fine structural studies; including changes in bacteria
 and other estuarine inhabitants in relation to
 changes in their environment and descriptions of
 the disease process involving bacterial and
 protozoan pathogens of estuarine inhabitants
- * 94 Chapoton, Robert Bruce MS
 Fishery Biologist
 National Marine Fisheries Service
 Atlantic Estuarine Fisheries Center
 Beaufort, North Carolina 28516
 (919) 728-4595 ext. 55
 A-1, B-9
 --Fisheries biology; including population dynamics,
 movements, growth and catch of menhaden especially
 as related to resource managements for the good
 of commercial and sport fisheries
- 95 Cheek, Randall Puryear MS
 Fishery Biologist
 Department of Commerce
 National Marine Fisheries Service
 Beaufort, North Carolina 28516
 (919) 728-4595
 B-8, B-9, B-18
 --Fisheries biology; including population dynamics
 of anadromous species and Atlantic menhaden
 and effects of estuarine alterations on marine
 fishery resources
- 96 Chesmore, Arthur P. ABA
 Research Analyst
 Division of Marine Fisheries
 Department of Natural Resources
 Commonwealth of Massachusetts
 Cat Cove Marine Laboratory
 92 Fort Ave.
 Salem, Massachusetts 01970
 (617) 745-7667
 B-8, E-1, F-6
 --Assessment of the effects of thermal addition to the
 waters of Salem Harbor, Massachusetts, from the
 discharge of heated effluent from a steam
 generating station

- 97 Chestnut, Alphonse F. PhD
 Director and Professor
 Institute of Marine Sciences
 University of North Carolina
 P.O. Box 809
 Morehead City, North Carolina 28557
 (919) 726-6841
 A-1, B-1, B-2, B-8, B-12, E-2, E-3
 --Molluscan biology; including ecology; feeding mechanisms, especially of Lamellibranchs and oyster studies
- * 98 Chew, Robert Lynn BS
 Fishery Biologist II
 State of Florida
 Game and Fresh Water Fish Commission
 5301 Glasgow Avenue
 Orlando, Florida 32805
 (305) 859-1098
 B-1, B-8, B-9
 --Fisheries biology; including nursery area residency studies of sciaenids and life history studies of sciaenids and large mouth bass
- * 99 Chittenden, Mark Eustace Jr. PhD
 Associate Marine Scientist
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext. 68
 B-9, B-16, B-18
 --Fisheries biology; including life histories, ecological, population dynamical and behavioral studies of anadromous and estuarine fishes, especially Alosine and Serranid species
 --Physiological ecology of fishes; including studies of oxygen requirements, low temperature tolerance, salinity tolerance, and effects of handling stress
 --Population dynamics of blue crabs
- * 100 Christensen, Darryl Jack MS
 Fisheries Biologist (Research)
 Department of Commerce
 National Marine Fisheries Service
 Oxford, Maryland 21654
 (301) 226-5193
 B-8, B-9, E-1
 --Finfish resource assessment
 --Estuarine ecology

- * 101 Clark, James Freeman BA
 Instructor of Oceanography LTSC, USNR
 Department of Environmental Sciences
 U.S. Naval Academy
 Annapolis, Maryland 21402
 (301) 267-3564
 B-1, B-4, B-8, B-12, E-1, E-2, E-3, G-6, G-7, G-8
 --Distributions of benthic invertebrates, particularly
 in response to the introduction of pollutants
 --Investigations including diving and underwater
 photography
- * 102 Clark, Leo J. BS
 Chief Engineering Section
 Annapolis Field Office
 Environmental Protection Agency
 Annapolis Science Center
 Annapolis, Maryland 21401
 (301) 268-5038 ext. 7
 E-1, G-1, G-5
- * 103 Clark, William Dixon PhD
 Chief Scientist
 Westinghouse Ocean Research Laboratory
 Westinghouse Electric Corporation
 P.O. Box 1771
 Annapolis, Maryland 21404
 (301) 765-5300
 B-2, E-2, E-3
 --Shallow-water community studies
 --Aquaculture
 --Biological oceanography
- 104 Clench, William James PhD
 Curator of Mollusks. Retired
 Museum of Comparative Zoology
 Harvard University
 Oxford Street
 Cambridge, Massachusetts 02124
 (617) 825-2368
 B-8, B-12
 --Systematics of Western Atlantic Mollusca

- *105 Cockey, Ralph Ringgold MS
 Faculty Research Assistant
 Natural Resources Institute
 University of Maryland
 Box 351
 Crisfield, Maryland 21817
 (301) 968-1655
 A-3, B-1, B-13
 --Microbiology; including studies of the incidence of
Vibrio parahaemolyticus in Bay water and seafood
 and of the growth and toxin production of
Clostridium botulinum, type E, in pasteurized
 meat of blue crabs
- * 106 Coffin, Laurence MLA
 Landscape Architecture and Urban Design
 1312 18th Street N.W.
 Washington, D.C. 20036
 (202) 223-2088
 H-3, Urban systems
 --Systems analysis of urbanization in the Rhode River
 Watershed
- 107 Cole, Charles Fraklyn PhD Cand.
 Professor of Fisheries Biology
 Forestry and Wildlife Management
 Holdsworth Hall
 University of Massachusetts
 Amherst, Massachusetts 01002
 (413) 545-2821
 B-8, B-9, H-2
 --Studies of the effects of pesticides and thermal
 effects on eggs and larvae in estuaries
 --Fisheries biology; including population dynamics
 of Alosa pseudoharengus (alewife) and life
 history studies of fishes in boreal-temperate
 estuaries
- 108 Collette, Bruce B. PhD
 Assistant Laboratory Director
 Systematics Laboratory
 National Marine Fisheries Service
 U.S. National Museum
 Washington, D.C. 20560
 B-4, B-5, Systematic ichthyology
 --Fisheries biology; including systematics, distribution,
 and evolution of Pereidae, Hemicamphidae,
Belonidae, and Scombridae

109 Collier, Ries Stuart MS
Fishery Biologist
Marine Contaminants
National Marine Fisheries Service
Rogers Avenue
Milford, Connecticut 06460
(203) 878-2459

B-1, B-8, B-9

--Heavy metal analyses and histo-pathological
examinations of crabs, molluscs, and finfish

*110 Colwell, Rita R. PhD
Associate Professor
Department of Biology
37th and O Streets N.W.
Georgetown University
Washington, D.C. 20016
(202) 625-4126

B-1, B-13, Marine animal and plant diseases

--Microbiology; including development of a data bank,
analysis of microbial metabolism of mercury
compounds, effects of hydrostatic pressure and
temperature on bacteria, relationship of marine
bacteria to plankton, survival and reproduction
of human pathogens in the estuary, and numerical
taxonomy

* 111 Cones, Harold Nelson Jr. MA
Assistant Professor
Department of Biology, Marine Science Section
Christopher Newport College
Shoe Lane
P.O. Box 6070
Newport News, Virginia 23606
(703) 596-7611 ext. 235

B-8, G-6, Wetlands ecology

--Estuarine pollution ecology
--Wetlands research

* 112 Cook, Thomas M. PhD
Associate Professor
Department of Microbiology
University of Maryland
College Park, Maryland 20742
(301) 454-2848

B-8, B-13, E-3

--Studies of biodegradation of alkylbenzene sulfonate
detergents and related arylsulfonates in Chesapeake
Bay; including determination of rates of
mineralization of linear alkylbenzene sulfonate
(LAS) detergents and related chemical substances

in Chesapeake Bay environments, characterization of the influence of environmental and biological parameters on the biodegradation process; and development of rapid, simple bacteriological methods for detection, enumeration and isolation of arylsulfonate-oxidizing bacteria

--Studies of the bacterial flora of the Chesapeake Bay nettle, Chrysaora quinquecirrha

--Microbiological modifications of biocides and hazardous chemicals in the Bay

* 113 Cooper, John Edwin BA
Faculty Research Assistant
Fisheries
Natural Resources Institute
University of Maryland
Chesapeake Biological Laboratory
Box 38
Solomons, Maryland 20688
(301) 326-4281 ext. 37

B-9, B-18, B-19

--Determination of effects of widening of the Chesapeake and Delaware Canal on the spawning of fishes, especially the striped bass

114 Corbett, Kenneth M. PhD
Professor
Botany Department
University of Maryland
College Park, Maryland 20740
(301) 454-3816

B-6, Plant pathology and virology

--Virus diseases of plants

* 115 Correll, David L. PhD
Chemist
Radiation Biology Laboratory
Smithsonian Institution
12441 Parklawn Drive
Rockville, Maryland 20852
(301) 443-2318

B-13, C-2, C-5

--Phosphorous cycling

--Energy flow in microbial populations

--Nutrient studies

* 116

Cory, Robert Lawrence BA
Research Oceanographer
Department of the Interior
U.S. Geological Survey
Water Resources Division
CBCES, Smithsonian Institution
Route 4 Box 622
Edgewater, Maryland 21037
(301) 798-4424

B-8, B-19, E-1
--Water quality monitoring
--Primary productivity
--Collections of epifauna, benthic fauna, and fish
fauna to establish baseline population information
prior to a sewage plant discharge

117 Costlow, John Deforest PhD
Professor and Director
Marine Laboratory
Duke University
Beaufort, North Carolina 28516

B-1, B-12, B-17
--Ecology, physiology, and larval development of
invertebrates

118 Coston, Linda Claire BS
Fishery Biologist
National Marine Fisheries Service
Pivers Island
Beaufort, North Carolina 28516
(919) 728-4595 ext. 52

B-8, B-9, B-16
--Effects of thermal pollution on post-larval fish

* 119 Couch, John Alexander PhD
Aquatic Pathologist
Environmental Protection Agency
Sabine Island
Gulf Breeze, Florida
(904) 932-5326

B-5, B-12, B-13, B-15, C-7, E-3, G-7
--Diseases and parasites of estuarine invertebrates,
especially of Callinectes sapidus in Chesapeake
Bay and Chincoteague Bay
--Effects of pesticides on the tissues of organisms

- * 120 Craven, Henry Truxton MS
 Senior Supervisor for Viral Isolation
 Department of Pathology
 Georgetown University
 3900 Reservoir Road
 Washington, D.C. 20007
 (202) 625-7052
 B-8, B-13, E-3, G-2, G-7
 --Determination of hepatitis associated antigen
 replication in oysters by autoradiography
 --Recovery of viruses from undigested sewage sludge
- 121 Crawford, Claude C. PhD
 Research Associate
 Department of Zoology
 University of Georgia
 235 Sycamore Drive Apt. C-4
 Athens, Georgia
 (912) 546-6886
 B-1, B-8, B-13, B-17, B-19, C-2, C-6, E-2, G-5, H-1
 --Microbial cycling of dissolved organic compounds
- 122 Cressey, Roger Frank PhD
 Curator
 Division of Crustacea
 NMNH
 Smithsonian Institution
 Washington, D.C. 20560
 (202) 381-5781
 B-5, B-8, B-15
 --Taxonomy of parasitic copepods
- * 123 Creter, Robert Vincent MS
 Watershed Manager
 Water Quality Enforcement and Investigation
 Maryland Department of Water Resources
 State Office Building
 Annapolis, Maryland 21401
 (301) 267-5732
 B-1, E-1, H-2
 --Enforcement of effluent and stream water quality
 standards for various industrial discharges
 --Surveillance of streams and rivers for various
 water quality parameters

- 124 Crippen, Robert W. MA
 Research Associate and Graduate Student
 Department of Zoology
 University of Maine
 Ira Darling Center
 Walpole, Maine 04572
 (207) 563-3146
 B-12, Polychaete systematics, Entrainment studies
 --Laboratory duplication of the temperature regimes
 found in nuclear - and fossil-fueled power
 plants and in their discharge canals in order
 to subject various planktonic organisms, including
 phytoplankton, meroplankton and holoplankton,
 to these conditions and determine their mortality;
 field studies to determine the mortality of the
 above organisms due to entrainment
- 125 Croker, Robert Arthur PhD
 Associate Professor
 Department of Zoology
 University of New Hampshire
 Durham, New Hampshire 03824
 (603) 862-2113
 B-1, B-12, Carcinology
 --Systematics and ecology of epifaunal and infaunal
 amphipod crustaceans
- *126 Cronin, L. Eugene PhD
 Director
 Natural Resources Institute
 University of Maryland
 College Park, Maryland 20742
 B-8, E-3, H-3
- * 127 Cronin, William Baker BS
 Research Staff Assistant
 Chesapeake Bay Institute
 The Johns Hopkins University
 RD 3, Box 32
 Annapolis, Maryland 21403
 (301) 268-5231
 B-1, B-8, C-4
 --Phytoplankton identification
 --Productivity
 --Suspended sediments

- 128 Cross, Ford A. PhD
 Leader Elemental Cycling Program
 National Marine Fisheries Service
 Atlantic Estuarine Fisheries Center
 Pivers Island
 Beaufort, North Carolina 28516
 (919) 728-4595 ext. 44
 B-8, C-1, Radioecology
 --Distribution and turnover of trace metals (particularly
 manganese, iron, copper, and zinc) in estuarine
 food webs in North Carolina estuaries
- 129 Culliney, John L. PhD
 Research Fellow
 Museum of Comparative Zoology
 Harvard University
 Cambridge, Massachusetts 02138
 (617) 495-2468
 B-1, B-17, E-2
 --Ecology and behavior of meroplankton and benthos,
 especially of mollusca
- * 130 Cumberland, John H. PhD
 Professor of Economics
 Bureau of Business and Economic Research
 University of Maryland
 College Park, Maryland 20740
 (301) 454-2303
 E-1, E-3, Economics
 --Regional economics; environmental models for analysis
 and forecasting in the Bay region
- 131 Curley, John Richard BS
 Marine Fisheries Biologist
 Department of Natural Resources
 Division of Marine Fisheries
 Commonwealth of Massachusetts
 P.O. Box 707
 Sandwich, Massachusetts 02503
 (617) 888-1155
 B-8, E-1, H-2
- 132 Curtis, Lawrence Andrew MS
 Graduate Student (PhD Candidate)
 Biological Sciences
 University of Delaware
 Lewes, Delaware 19958
 (302) 645-9873
 B-1, B-12, B-18
 --Factors involved in the maintainance of the population
 of Sabellaria vulgaris Verrill (Polychaeta:

Annelida) in Delaware Bay
--Intrapopulation dispersion of the snail Urosalpinx
cinerea

- * 133 Dahlberg, Michael D. PhD
Senior Research Biologist and Chairman
Aquatic Biology
Virginia Institute for Scientific Research
6300 River Road
Richmond, Virginia 23229
(703) 282-9581
B-5, B-8, E-3
--Ecological effects of thermal loading on a freshwater
section of the James River
--Pesticide survey
- 134 Dame, Richard F. PhD
Assistant Professor
Department of Marine Science
U.S.C. Coastal Carolina
Conway, South Carolina 29526
(803) 448-8419
B-2, B-8, B-9, B-18, B-19, E-2, G-5, Ecological
energetics, Physiological ecology
--Development of an energy flow model for the intertidal
oyster community
--Formation of quantitative models describing influences
of the estuarine environment on growth and res-
piration in invertebrates
- 135 Damkaer, David M. PhD Cand.
Research Biologist
National Marine Fisheries Service
Department of Commerce
c/o Smithsonian Institution
NMNH
Washington, D.C. 20560
(202) 381-5781
B-17, F-2, H-3
--Systematics and ecology of planktonic Copepoda
--Vertical distribution of plankton in estuaries
- 136 Davis, John Dunning PhD
Vice President
Normandeau Associates, Inc.
26 Norfolk Ave
Northampton, Massachusetts 01060
(413) 584-8983
B-8, E-1, E-3
--Biological impact of thermal discharges
--Biological, physical and chemical aspects of dredge

* 137 Davies, Robert M. PhD
 Research Assistant
 Department of Geography and Environmental Engineering
 The Johns Hopkins University
 34th and Charles Streets
 Baltimore, Maryland 21218
 (301) 366-3300 ext. 678

B-1, B-17, E-1
--Effect of entrainment of zooplankton in power plant cooling water

139 Davis, Wayne Ray MS
Research Aquatic Biologist
National Marine Water Quality Laboratory
Environmental Protection Agency
P.O. Box 277
West Kingston, Rhode Island 02892
(401) 789-9751 ext. 51

B-8, B-12, E-3

--Multifactor analysis of environmental requirements for marine organisms belonging to the soft bottom (infauna) and epibenthic communities; including dissolved oxygen, temperature, and salinity requirements singly and in combination for such genera as Nephtys, Yoldia, Nucula, Crangon, Palaeomonetes, Loligo, etc. criteria used are survival, gametogenesis, spawning, cleaving rates, gastrulation, metamorphosis and behavior, depending on the material

- 140 Davis, William Jackson PhD
Assistant Director
Division of Fisheries
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111 ext. 88
B-9, E-1, H-3
--Fisheries biology; including management and resource assessment
- * 141 Dawe, Clyde Johnson MD and PhD
Head, Section of Comparative Oncology
Laboratory of Pathology, General Laboratories
and Clinics
Department of Health, Education, and Welfare
National Cancer Institute, National Institute of Health
Bethesda, Maryland 20014
(301) 496-4970
B-10, B-18, E-3, Neoplasms in aquatic animals
--Tumors of Chesapeake Bay animals, especially the relationship of neoplasms in aquatic animals to environmental factors such as chemical, biological or physical pollutants
- 142 DeWitt, Hugh Hamilton PhD
Assistant Professor
Department of Oceanography
University of Maine
Darling Center for Research
Walpole, Maine 04573
(207) 563-3146
B-1, B-4, B-5
--Systematics, distribution and ecology of marine fishes
- * 143 Dias, Robert Kent BS
Extension Agent
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111 ext. 90
A-1, B-5, B-9
--Fisheries biology; including seasonality, distribution and abundance of commercial and sport fishes of Chesapeake Bay and demersal fish resources of the continental shelf area of Middle and South Atlantic regions of U.S.

- *144 Diaz, Robert James MS
 Research Assistant
 Ecology-Pollution
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext. 35
 B-8, G-1
 --Benthic study of the James River and its tributaries
 in order to characterize existing pollution
 conditions to serve as a base for future pollution
 evaluation
- 145 Dietrich, William E. Jr. PhD
 Assistant Professor
 Biology Department
 Indiana University of Pennsylvania
 Indiana, Pennsylvania 15701
 (412) 357-2254
 B-16, B-17, B-19
 --Primary productivity and chlorophyll studies
 --Algal physiology
- 146 Dillon, Charles Ronald PhD
 Assistant Professor
 Botany Department
 Clemson University
 Clemson, South Carolina 29631
 (803) 656-3452
 B-6, B-8, B-19
 --Primary productivity of estuarine phytoplankton,
 periphyton, benthic macrophytes
 --Mass culture of phytoplankton as food for maricultured
 organisms
 --Taxonomy and distribution of marine algae
- 147 Dimsdale, Nancy Glude BS
 Staff Biologist
 Chesapeake Bay Foundation Inc.
 P.O. Box 1709
 17 State Circle
 Annapolis, Maryland 21404
 (301) 268-8816
 B-1, B-8, E-1

- 148 Doggett, Arthur Latham III MS
 Graduate Student
 Department of Zoology
 University of New Hampshire
 Durham, New Hampshire
 A-1, B-9, G-6
 --Study of the American lobster and its behavior in
 relation to water temperature and salinity
- *149 Donnelly, Daniel K. BS
 Chemical Engineer
 Annapolis Field Office
 Environmental Protection Agency
 Annapolis Science Center
 Annapolis, Maryland 21401
 (301) 268-5038 ext. 27
 E-1, G-1
- *150 Donovan, Gerard A. Jr. --
 Engineering Technician
 Annapolis Field Office
 Environmental Protection Agency
 Annapolis Science Center
 Annapolis, Maryland 21401
 (301) 268-5038
 C-9, E-2, G-5
- 151 Dovel, William Lawrence BA
 Research Associate
 Boyce Thompson Institute
 1086 North Broadway
 Yonkers, New York 10701
 (914) 965-0390
 B-5, B-8, B-9, B-17, B-18, Ecology of estuarine-dependent
 ichthyoplankton
 --Comprehension of estuarine dependent ichthyoplankton
 --Familiarization with broad patterns of conceptual
 views of Chesapeake ichthyoplankton as related to
 physical and chemical parameters
 --Hudson estuary study
- * 152 Dressel, David Michael --
 Oceanographer
 Oceanographic Division
 NOAA
 National Ocean Survey
 6001 Executive Blvd
 Rockville, Maryland 20852
 (301) 496-8288
 B-8, B-17, E-1, E-2, E-3
 --Thermal pollution and its effects on estuarine

- copepods, especially Acartia tonsa
- Identification of potential marine pollutants and examination of the state-of-the-art of in situ sensors capable of monitoring them
- Formulation of functional specifications for a marine water quality monitoring data acquisition system to obtain baselines needed for environmental monitoring and predictions

*153 Drobeck, Klaus G. BS
 Research Assistant
 Fisheries Department
 Natural Resources Institute
 Chesapeake Biological Laboratory
 University of Maryland
 Box 38
 Solomons, Maryland 20688
 (301) 326-4281

- B-2, B-8, B-12
- Soft-shelled clam and oyster studies
- Benthic communities of Chincoteague Bay
- Aquaculture; including pilot plant operations, research with larval and young stages of the oyster, and oyster genetics

154 Dryfoos, Robert Louis PhD
 Supervisory Fishery Biologist
 MARMAP Field Office
 National Marine Fisheries Service
 RR 7 A Box 522-A
 Narragansett, Rhode Island 02882
 (401) 789-9326

- B-9, B-17, B-18
- Fisheries biology; including menhaden population dynamics, migrations, egg and larval surveys and resource assessments

*155 Duggan, William Paul MS
 Assistant Marine Scientist
 Wachapreague Eastern Laboratory
 Virginia Institute of Marine Science
 Wachapreague, Virginia
 (703) 787-3280

- B-1, B-2, B-8, B-12
- Developing commercially feasible mariculture techniques for rearing the bay scallop

- 156 Duke, Thomas Wade PhD
Laboratory Director
Environmental Protection Agency
EPA Gulf Breeze Laboratory
Sabine Island
Gulf Breeze, Florida 32561
(904) 932-5326
B-1, C-7, E-3
--Movement, accumulation and effects of pollutants,
particularly radionuclides and pesticides, in
the marine environment
- 157 Durand, James B. PhD
Professor
Department of Biology
Rutgers University
Camden, New Jersey
(609) 964-1766 ext. 225
B-8, C-9, E-1
--Estuarine primary productivity
--Nutrient cycling
--Ecology of estuaries and salt marshes
- *158 Durvasula, Subbarao Venkata PhD
Assistant Professor and Research Associate
Department of Biology
The Johns Hopkins University
3600 Charles Street
Baltimore, Maryland 21218
(301) 366-3300 ext. 408
B-17, C-1, E-3
--Comparison of oscillations in the baseline structure
in Rhode River, a relatively unpolluted region
of the Chesapeake Bay, with other regions
--Development of diagnostic tools of parameters based
on the physiological response and recovery of the
phytoplankters with a view to predict the
probable course of events in the Bay.
- *159 Dyer, Hunter F. BA
Faculty Research Assistant
Department of Special Studies
Chesapeake Biological Laboratory
Box 38
Solomons, Maryland 20688
(301) 326-4281 ext. 69
C-4, F-5, F-6, G-1, G-5, Physical properties,
conductivity, salinity, and temperature
--Gathering prototype data of current speed and
direction and of tides for use in the Chesapeake
Bay hydrological model

160 Eble, Albert F. PhD

Professor
Department of Biology
Trenton State College
Hillwood Lakes
Trenton, New Jersey 08625
(609) 771-2371

B-8, B-12, B-15, B-16

--Cytology and cytochemistry of amebocytes of Mollusca
--Physiology of digestive glands of Mollusca
--Histopathology of disease organisms in Mollusca

* 161 Edmunds, James Richard BA

Research Assistant
Department of Geography and Environmental Engineering
The Johns Hopkins University
Charles and 34th Streets
Baltimore, Maryland 21218
(301) 366-3300 ext. 677

B-8, B-9, E-1

--Fisheries biology; including distribution and survival
rates of anadromous fish species whose spawnings
are affected by thermal discharge from steam
electric power stations

162 Edwards, Dallas Craig PhD

Associate Professor
Department of Zoology
University of Massachusetts
Morrill Science Center
Amherst, Massachusetts 01002
(413) 545-0148

B-8, B-12, B-18

--Population ecology and behavior of intertidal and
shallow-water invertebrates, especially Mollusca;
including distribution patterns, their behavioral
basis, and ecological significance; mating
behavior, fecundity, and early life histories;
food preferences; effects of predation on prey
populations; growth rates, longevity,
and age structure in natural populations; and the
energetics of predators. Specific studies on the
feeding and growth rates of Polinices duplicatus
preying on Mya arenaria under natural conditions

163 Eldridge, Peter John PhD Cand.

Graduate Student
Fisheries Department
South Carolina Wildlife Resources
217 Ft. Johnson Road
Charleston, South Carolina 29412

B-18, G-1, H-2

--Population dynamics of marine invertebrate species
of commercial importance

*164 Elliott, Thomas B. MS

Fellow
Department of Microbiology
George Washington University
School of Medicine
1339 H. Street. N.W.
Washington, D.C. 20005
(202) 331-6533

B-8, B-13, G-3

--Isolation and identification of bacteria from water
and sediment of the upper half of the Chesapeake
Bay in order to determine the species present
and their distribution especially for Vibrio,
Aeromonas, and Pseudomonas sp.

165 Ellison, Robert Lee PhD

Associate Professor
Environmental Sciences Department
University of Virginia
University Station
Charlottesville, Virginia 22903
(703) 924-3761

B-8, D-8

--Ecology of estuarine Foraminifera
--Geology and ecology of salt marshes

166 Engel, David Walter PhD

Fishery Biologist
Department of Commerce
National Marine Fishery Service
Atlantic Estuarine Fisheries Center
Beaufort, North Carolina 28516
(919) 728-4595

B-12, B-16, E-3

--Salinity-temperature effect on the osmoregulation
of decapod crustaceans, especially in regard to
ion levels in the muscle and hemolymph and to
the amino acid metabolism
--Radiation biology; including the effects of the
interactions of environmental factors on the survival
of organisms

- 167 Erickson, Burdette Warren Jr. MS
 Faculty Research Assistant
 Zoology Department
 University of Maryland
 College Park, Maryland 20742
 (301) 454-5461
 B-12, B-15, Protozoology
 --Cytology, ultrastructure, and tissue culture of
 individuals of Class Microsporea which
 parasitize commercially important species
- *168 Fang, Ching Seng PhD
 Department Head
 Department of Physical Oceanography and Hydraulics
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext. 44
 D-6, E-1, E-2, E-3, F-3, F-4, G-5, H-3
 --Estuarine and coastline hydromechanics
- *169 Favorite, Anna Mae --
 Statistical Assistant
 Annapolis Field Office
 Environmental Protection Agency
 Annapolis Science Center
 Annapolis, Maryland 21401
 (301) 268-5038 ext. 0
 B-1, C-1, C-9, Data reduction
- 170 Fell, Howard Barraclough DSc
 Professor of Invertebrate Zoology
 Museum of Comparative Zoology
 Harvard University
 Cambridge, Massachusetts 02138
 (617) 646-1651
 B-1, B-4, B-17
 --Echinodermata biology
 --Benthic pollution in Boston Harbor and environs
 --Pollution monitoring in a saltmarsh environment
 near Boston
- 171 Femino, Richard James MA
 Instructor
 Department of Biology
 Pine Manor Junior College
 400 Heath Street
 Chestnut Hill, Massachusetts
 (617) 731-7000 ext. 7905
 B-1, B-6, B-8, B-17, B-19, C-8, E-3
 --Relation of the environmental factors of the
 open coast and the tide-pool algae to that of
 estuarine or marshland pools

- 172 Ferguson, Randolph Lyons PhD
Fishery Biologist (Research)
United States Department of Commerce
National Marine Fisheries Service
Atlantic Estuarine Fisheries Center
Beaufort, North Carolina 28516
(919) 728-4595 ext. 50
B-1, B-8, B-13, B-17, B-18, B-19, G-5
--Estuarine microbiology
--Primary production
--Ecosystem modeling
- * 173 Firth, Richard William Jr. PhD
Senior Environmental Scientist
Eastern Division
Woodward-Envicon, Inc.
1373 Broad Street
Clifton, New Jersey 07012
(201) 473-6044 ext. 54
B-1, B-12, E-1
--Effects of various pollutants, especially heat,
on the ecosystem
--Studies of benthic organisms, especially crustaceans
- * 174 Fischer, Harry Clifton BS
President
Fischer Associates, Inc.
Box 548
Royal Oak, Maryland 21662
(301) 822-4350
A-2, B-2, E-3, F-3, F-4, F-5, F-6, H-1, H-3
--Aquaculture using nutrient rich effluent from
sewage disposal plants to create a food cycle
for filter feeders, such as oysters, to reduce
nutrient level in effluent waters and at the same
time to grow a marketable crop of oysters by
tray culture
- * 175 Fisher, Leo J. --
Oceanographer
Ocean Science Department Code T330
USN Oceanographic Office
Washington, D.C. 20390
(202) 767-2841
E-1, E-2, F-5
--Measurement, analysis, display, and prediction of
marine environmental parameters which may
affect coastal and riverine naval operations

- * 176 Flemer, David A. PhD
 Research Associate Professor
 University of Maryland
 Chesapeake Biological Laboratory
 Box 38
 Solomons, Maryland 20688
 (301) 326-4281
 B-8, B-19, C-9
 --Aquatic ecology, with emphasis on primary productivity,
 nutrient chemistry, biology of detritus, and
 cycling of matter
- * 177 Fletcher, Bettina B. BA
 Biologist
 Annapolis Field Office
 Environmental Protection Agency
 Annapolis Science Center
 Annapolis, Maryland 21401
 (301) 268-5038 ext. 0
 B-13, C-9, E-3
 --Bacteriological analysis
 --Mercury analysis
- * 178 Florence, Benjamin Mayo MS
 Estuarine Section Leader
 Fisheries Division
 State of Maryland
 State Office Building
 Annapolis, Maryland 21401
 (301) 267-5361
 Fishery Resource Management
 --Fisheries biology; including use of the fishery
 resources of Maryland tide waters, evaluation of
 changing fishery methods, evaluation of fish
 kills, inventory of waters used by anadromous
 species, evaluation of various wetland types
 as to their importance in fishery resources, and
 evaluation of population structure of striped
 bass in the Bay
 --Pesticide monitoring
- 179 Foehzenbach, Jack MA
 Senior Chemist
 New York Environmental Conservation
 New York State
 91 Elm Street
 Islip, New York 11751
 (516) 585-5400
 B-8, C-9, E-3
 --Trace metals and pesticides in organisms
 --Energy flow through marine ecosystems

- 180 Folger, David Winslow PhD
 Assistant Professor
 Department of Geology
 Middlebury College
 Middlebury, Vermont 05751
 (802) 388-7957
 D-1, D-8, E-2
 --Sedimentation
 --Pollutant distribution
 --Hydrology
- 181 Fore, Paul Lewis PhD
 Fisheries Biologist Research
 South Florida Ecological Studies
 Environmental Protection Agency
 Box 684A Rt. 1
 Naples, Florida 33940
 (813) 774-2996
 B-5, B-8, B-9
 --Fisheries biology; including ecology, seasonality,
 distribution, abundance, spawning, energetics
 and a life history study of the snook in
 southwest Florida
- *182 Forester, John William PhD
 Assistant Professor
 Department of Biological Sciences
 Goucher College
 Dulaney Valley Road
 Towson, Maryland 21204
 (301) 825-3300 ext. 453
 B-8, B-17, E-3
 --Phytoplankton taxonomy and morphology
 --Primary production
 --Anadromous fisheries; including the survival of
 clupeids entering the Susquehanna River to spawn
 and the effect of hydroelectric water discharged
 from the Conowingo Dam on spawning clupeids
 --Survival of freshwater algae entering estuaries
 --Eutrophication from the chemical-physical-
 microbiological aspects
- * 183 Foster, Neal Robert PhD
 Assistant Curator
 Department of Limnology
 Philadelphia Academy of Natural Sciences
 19th Street and the Parkway
 Philadelphia, Pennsylvania 19103
 (215) 564-3921 ext. 49
 B-1, B-2, B-3, B-4, B-5, B-8, B-9, C-9, D-5, D-6,
 E-2, E-3, G-7, G-8, Fish Behavior and cytogenetics

- Fisheries biology; including behavior, development, early life history, food habits and chromosome studies especially in the order Atheriniformes
- Aquaculture, particularly in relation to thermal pollution and eutrophication

184 Foster, Walter S. MS
 Research Director
 Productivity Research in Marine Ecology (PRIME)
 Martin Point Road
 Friendship, Maine 04547
 (207) 832-9360

B-2, B-7, B-19

- Culturing of oysters, quahogs, mussels, Crassostrea virginica, Ostrea edulis, Mercenaria mercenaria, Mytilus edulis, Mya arenaria and algae in heated sea water

* 185 Fowler, Sam Watson BS
 Public Health Engineer
 Division of General Sanitation
 Environmental Health Administration
 601 North Howard Street
 Baltimore, Maryland 21201
 (301) 383-2748

B-10, E-1, E-3

- Monitoring and evaluating the shellfish growing waters of the state of Maryland

186 Franz, David R. PhD
 Assistant Professor
 Ecology Section
 University of Connecticut
 Storrs, Connecticut 06268
 (203) 429-1882 ext. 1415

B-1, B-8, B-12

- Benthic invertebrate studies; including community structure, population dynamics, and reproductive strategies, especially in the mollusks; ecology of oyster predators, especially Urosalpinx cinerea

- *187 Frazier, John Melvin PhD
 Research Associate
 Department of Environmental Medicine
 The Johns Hopkins University
 615 North Wolfe Street
 Baltimore, Maryland 21205
 (301) 955-3295
 B-1, B-8, E-3
 --Environmental toxicology
 --Evaluation of potential public health problems
 generated by the use of marine organisms as
 food resources
 --Determination of the effects on estuarine productivity
 by the activities of man in the Bay
 --Role of trace materials in estuarine systems and
 their natural cycles
 --Effects of the activities of man on the cycling
 of trace materials
 --Pesticides and radioactive materials in the ecosystem
- *188 Frierman, Edward Michael BA
 Research Assistant
 Department of Malacology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext.25
 B-1, B-2, B-12
 --Examination of oysters from natural populations
 and laboratory reared stock to determine
 incidence of established diseases and diagnosis
 of new diseases
- *189 Frisbie, Charles M. MS
 Assistant Chief, Fisheries Management
 Fisheries Division
 Maryland Fish and Wildlife Administration
 State Office Building
 Annapolis, Maryland 21401
 (301) 267-5365
 A-1, B-8, B-9, B-18, Sport fisheries
 --Fisheries biology; including management; especially
 of fish population and distribution, harvest and
 effort of commercial and sport fisheries and
 ecology of Chesapeake Bay finfish populations

- *190 Fritzsche, Norman E. BS
 Biologist
 Annapolis Field Office
 Environmental Protection Agency
 Annapolis Science Center
 Annapolis, Maryland 21401
 (301) 268-5038 ext. 29
 B-8, B-12, C-9
 --Benthic studies in pollution research
- 191 Frost, Terrence Parker MS
 Chief Aquatic Biologist
 New Hampshire Water Supply and Pollution Control
 Commission
 P.O. Box 95, 105 Loudon Road
 Concord, New Hampshire 03301
 (603) 271-3502
 B-8, E-1, E-3
 --Water quality improvement as treatment plants increase
 in number and become more sophisticated
 --Effects of thermal discharges
 --Biological indices of estuarine habitat, especially
 using land plants that delineate tidal marshlands
 --Success of coho salmon stocking in estuarine
 waters of Great Bay, New Hampshire
- *192 Fuller, Samuel L.H. --
 Invertebrate Zoologist
 Department of Limnology
 Academy of Natural Sciences of Philadelphia
 19th Street and the Parkway
 Philadelphia, Pennsylvania 19103
 (215) 564-3921 ext 18
 B-8, B-12, E-3
 --Pollution biology of macroinvertebrates
- *193 Gabor, John Paul BS
 Biologist I
 Fish and Wildlife Administration
 Maryland Department of Natural Resources
 State Office Building
 Annapolis, Maryland 21401
 (301) 267-5361
 B-8, B-9, Stream ecology
 --Fisheries biology, especially of anadromous fish;
 including identification of spawning and nursery
 areas and documentation of associated conditions

194

Gaither, William S. PhD

Dean
College of Marine Studies
University of Delaware
Newark, Delaware 19711
(302) 738-2841

A-2, F-3, F-4, G-2

--Estuarine and coastal research management and coordination

--Economic, engineering and environmental aspects of marine transportation with particular reference to VLCC's

* 195 Galloway, Raymond Alfred PhD

Professor
Botany Department
University of Maryland
College Park, Maryland 20742
(301) 454-3821

B-6, B-15, B-16, B-17

--Nutrition of estuarine algae, especially the heterotrophic aspects of photosynthetic planktonic forms; including the nature, extent, and source of biochemical utilization

196 Gankin, Roman MA

Ecological Consultant
Central Atlantic Region
Jack McCormick and Associates
860 Waterloo Road
Devon, Pennsylvania 19333
(215) 687-1295

B-4, B-6, B-8, B-18, E-3, Biological erosion control

--Wetlands mapping

--Effects of spoil on marsh systems and succession onto spoil areas

--Interested in the possible usage of Spartina patens in erosion control

197 Ganna, Louis Allan BA

Biological Laboratory Technician
National Fisheries Center and Aquarium
Department of the Interior
18th and C Streets N.W.
Washington, D.C. 20015
(202) 967-2825

B-8, B-9, B-15

--Population and evolutionary mechanisms of vertebrates, including their relationship to parasitic life cycles

--Reactions of animals to confinement causing changes in their feeding habits

198 Gaucher, Thomas Aquinas PhD
Consultant
Natural Resources Consultants
53 High Street
Westerly, Rhode Island 02891
(401) 348-8275

B-2, B-8, H-3

- Developing cultivation systems in natural estuaries for scallops and oysters
- Developing specifications and systems for closed-recirculating artificial sea water for algae, fish, Crustacea and molluscs, especially larval stages and early juveniles
- Developing planning and policies framework for coastal zone management
- Coastal site evaluation for power plants and gas storage facilities and residential developments

* 199 Gemignani, Hugo Gino MS
Assistant Professor
Department of Biology
Anne Arundel Community College
101 College Parkway
Arnold, Maryland 21012
(301) 647-7100 ext. 274

A-1, A-3, B-5, B-8, B-14, G-6, H-3

- Wildlife movement in the Chesapeake Bay area

* 200 Geyer, John Charles PhD
Professor of Environmental Engineering
Department of Geography and Environmental Engineering
The Johns Hopkins University
Ames 513
Baltimore, Maryland 21218
(301) 366-3300 ext. 1094

E-3, F-4, G-6

- Water supply and wastewater treatment and disposal
- Resource planning, management and regulation
- Research in environmental science and engineering problems
- Consulting on environmental matters related to power generation

- *201 Gibson, Victoria Roy MA
 Assistant Marine Scientist
 Department of Microbiology-Pathology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext.14
 B-8, B-17, B-18
 --Phytoplankton research in Chesapeake Bay, with
 emphasis on the diatoms and secondarily the
 dinoflagellates
 --Biological properties of the surface microlayer of
 the water column, particularly the phytoplankton
 found in this layer
- 202 Gilbert, William H. PhD Cand
 Assistant Professor
 Department of Biology
 Colby College
 Waterville, Maine 04901
 (207) 873-1131 ext.246
 B-8, B-11, B-18
 --Distributional patterns in populations of estuarine
 bivalves, especially Tellina agilis
- 203 Gilford, James Harold PhD
 Professor
 Department of Biology
 Hood College
 Frederick, Maryland 21701
 (301) 663-3131 ext.261
 B-7, E-3, G-6
- 204 Glancy, Thomas J. Jr. MS
 Chairman, Cdr. -USN
 Environmental Sciences Department
 U.S. Naval Academy
 Annapolis, Maryland 21402
 (301) 267-3561
 B-1, C-1, G-6
- 205 Gnewuch, William Theodore PhD
 Assistant Professor of Biology
 Department of Science and Mathematics
 Briarcliff College
 Briarcliff Manor, New York 10510
 (914) 941-6400 ext.730
 B-1, B-12, B-18
 --Systematics, ecology and life history studies of
 Cumacea (Crustacea: Malacostraca)

206 Godwin, Walter F. BS
Marine Fisheries Biologist
Commercial and Sports Fisheries Division
Department of Natural and Economic Resources
1510 Airlie Road
Wilmington, North Carolina 28401
(919) 256-3446

B-5, B-8, B-9
--Estuarine monitoring and resource assessment
--Biological and ecological studies of fisheries
resources

*207 Goodell, Horace Grant --
Professor
Department of Environmental Sciences
University of Virginia
Brooks Museum
Charlottesville, Virginia 22903
(703) 924-3995

C-3, D-8, E-1
--Estuarine sediments and sedimentary processes
--Geochemistry of estuarine sediments especially
heavy metal sorption

208 Goodman, Joel M. MS
Director
Coastal Zone Resource Planning
College of Marine Studies
University of Delaware
Newark, Delaware 19711
(302) 738-2842

G-5, H-2, H-3
--System engineering and system analysis methodology
development as applied to coastal zone resource
allocation problems with special emphasis on the
interaction between technology and socio-economic
evaluation criteria

209 Gore, Kennet Lee MS
Research Staff Assistant
Department of Geography and Environmental Engineering
The Johns Hopkins University
3300 N. Charles Street
Baltimore, Maryland 21218
(605) 366-3300

B-8, B-9, B-17
--Zooplankton, with a specialization in copepods

- 210 Graham, Joseph J. PhD
 Program Leader, Fishery Biologist (Research)
 Department of Commerce
 NOAA
 NMFS
 Biological Laboratory
 West Boothbay Harbor, Maine 04575
 (207) 633-2221
 B-5, B-9, B-18
 --Ecology of Atlantic herring, Clupea harengus, age group 0
 --Currents and variations in temperature and salinity along coastal Gulf of Maine
 --Ecology of fishes, especially larval fishes
 --Physical and biological oceanography
- 211 Grant, David Carroll PhD
 Assistant Professor
 Department of Biology
 Davidson College
 Davidson, North Carolina 28036
 (704) 892-8021 ext.329
 B-1, B-12, Benthic ecology
 --Niche diversification and community structure
- * 212 Grant, George Clifford PhD
 Associate Marine Scientist
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext.17
 B-12, B-17, E-2
 --Hydrography of the Chesapeake Bay; including observations of temperature, salinity and dissolved oxygen
 --Zooplankton studies; including taxonomy, biomass, and chemical analyses especially determinations of protein, lipid, and carbohydrate content of zooplankton samples
- 213 Grant, William S. BS
 Graduate Student
 Department of Botany
 University of Maine
 Orono, Maine 04473
 B-1, B-6, B-12
 --Trophic interactions between algae, sea urchins and asteroids in the sublittoral zone
 --Competition for space among invertebrates in the rocky intertidal region

- 214 Graves, Willard L. PhD
Associate Research Scientist
Department of Geography and Environmental Engineering
The Johns Hopkins University
Charles and 34th Streets
Baltimore, Maryland 21218
(301) 366-3300 ext. 709
F-6, G-1, G-5
--Studying and modeling cooling water discharges from
thermo-electric generating stations
- 215 Green, Albert G. Jr. PhD
Assistant Director
Marine Institute
University of Georgia
Sapelo Island, Georgia 31327
(404) 485-2471
B-16
--Carbon dioxide fixation in Spartina
--Physiology of salt marsh halophytes
- 216 Green, Robert Lamar PhD
Professor and Department Head
Coordinator, Water Resource Research Department
Agricultural Engineering Department
University of Maryland
Shriver Laboratory
College Park, Maryland 20742
(301) 454-3901
A-1, A-2, A-3, A-4, B-2, D-5, D-8, E-1, E-3, F-5, F-6,
G-2, G-6, H-2, H-3
--Water resources management with particular interest
in water quality and abatement of pollution from
agriculture
--Aquacultural engineering with particular interest
in closed cycle systems that will lead to improved
production, harvesting and processing of aquatic
environment which probably lies somewhere
between a closed cycle and uncontrolled aquatic
system
- 217 Greene, Kathleen Harleston MS
Teacher
York Academy
Route 1, Box 76 D
Gloucester, Virginia 23061
(703) 693-4983
B-1, G-6
--Feeding of bivalve molluscs

218 Griffith, Ruth Ester PhD
Not presently employed
B-8, B-17, B-19
--Identification of phytoplankton

*219 Gross, M. Grant PhD
Acting Director
Marine Sciences Center
State University of New York
Stonybrook, New York 11790
(516) 246-7710

D-2, E-2, E-3

--Effects of waste disposal operations on environmental conditions in estuarine waters, emphasizing chemical, geological, and physical aspects

*220 Guide, Victor MSCE
Civil Engineer
Annapolis Field Office
Environmental Protection Agency
Annapolis Science Center
Annapolis, Maryland 21401
(301) 268-5038 ext. 27

E-1

*221 Haas, Leonard W. MS
Research Assistant
Environmental Physiology
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111 ext. 47

B-1, B-13, B-17

--Cycling of dissolved organic matter through estuarine plankton

--Ecology and physiology of microflagellates and surface film biota

*222 Haefner, Paul A. PhD
Associate Marine Scientist
Department of Crustaceology
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111 ext. 70

B-8, B-12, B-16

--Crustacean biology, ecology and physiology, especially on shrimps and crabs including Crangon septemspinosus and Callinectes sapidus

* 223 Haley, Albert James ScD
 Professor
 Zoology Department
 University of Maryland
 College Park, Maryland 20742
 (301) 454-3201

B-15

--Biology of endoparasitic helminths of fishes;
 including studies of their transmission. of
 their effects on the host, and of the factors
 which influence host immunity and parasite
 pathogenicity

224 Hall, John Randolph PhD
 Research Associate
 Marine Institute
 University of Georgia
 Sapelo Island, Georgia
 (912) 485-2297

B-1, B-8, B-12

--Bioenergetics of intertidal marine animal sediment
 systems

*225 Hamilton, Daniel Heyward Jr. PhD
 Research Assistant Professor
 Chesapeake Biological Laboratory
 University of Maryland
 Solomons, Maryland 20688
 (301) 326-4281

B-8, B-13, B-17

--Primary production
 --Polychaete ecology
 --Diversity of benthic infauna

*226 Hammed, Janet Brown HS
 Laboratory Assistant I
 NOAA
 NMFS
 Biological Laboratory
 Oxford, Maryland 21654
 (301) 226-5193

B-2, B-12, Molluscan shellfish pathology

--Parasite studies; including determinations of
 distribution and oyster and clam mortalities
 to serve as a guide in the placement of artificial
 oyster beds and seed transplants in the Chesapeake
 Bay

- *227 Hamons, Frank Lowell Jr. AB
 Project Leader
 Fisheries
 Maryland Department of Natural Resources
 State Office Building
 Annapolis, Maryland 21401
 (301) 267-5151
 H-1, H-2, H-3
 --Shellfish population studies for the purpose of
 charting, recharting, classifying or reclassifying
 legal clam and oyster harvesting areas, according
 to population densities, bottom types and
 maximum use potentials
 --Multidisciplinary studies designed to produce management
 information concerning (1) the mechanisms involved
 in the distribution of chlordinated hydrocarbons
 in suspended and bottom sediments (2) their
 toxic effects upon shellfish in Chesapeake Bay
 (3) the effects of erosion upon distribution in
 the Chester River, and the levels of toxic trace
 metals in this river system
- *228 Hanks, Robert William PhD
 National Coordinator, Marine Ecosystems Analyses
 Department of Commerce
 NOAA
 NMFS
 Oxford Laboratory
 Oxford, Maryland 21654
 (301) 226-5193
 B-8, B-12, E-3
 --Benthic communities and associations
 --Invertebrate fisheries
 --Effects of pollutants and contaminants on large
 ecosystems, including the Chesapeake Bay
- *229 Hargis, William Jennings Jr. PhD
 Director
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-4217
 G-2, H-2, H-3
- *230 Hargraves, Paul E. PhD
 Assistant Professor
 Oceanography and Botany Departments
 University of Rhode Island
 Narragansett Marine Laboratory
 Kingston, Rhode Island 02881
 (401) 792-6172
 B-6, B-17, E-3
 --Systematics, fine structure and distribution of
 estuarine phytoplankton, particularly diatoms

- * 231 Harshbarger, John Carl PhD
Director
Registry of Tumors in Lower Animals
National Museum of Natural History
Smithsonian Institution
Washington, D.C. 20560
(202) 381-5936
E-3, Diseases of invertebrates and cold-blooded
vertebrates
--Effects of chemical pollutants on, and the etiology
and natural history of diseases (especially
neoplasms) of, invertebrates and poikilothermic
vertebrate animals, primarily at the sub-cellular
and cellular levels
- * 232 Hart, Charles Willard Jr. MA
Administrator of Consultant Programs
Department of Limnology
Academy of Natural Sciences of Philadelphia
19th Street and the Parkway
Philadelphia, Pennsylvania 19103
(215) 564-3921
A-1, B-1, B-8, B-12, E-3
--Monitoring of the aquatic environment for power
companies
--Studies of thermal effects and biocides
--Literature survey of tributaries of the upper
Chesapeake Bay watershed group
--Estuarine Ostracoda
--Long term changes in estuarine environments due to
man and to natural causes, particularly with
reference to sedimentation and salinity
- *233 Harvill, Alton M. PhD
Professor of Biology
Department of Natural Sciences
Longwood College
Farmville, Virginia 23901
(703) 5667 ext.9
B-4, B-6
--Maritime botany of Chesapeake Bay

- 234 Hatfield, Edward Brooks MS
 Student Research Assistant
 Functional Biology
 R.S.M.A.S. - University of Miami
 10 Rickenbacker Causeway
 Miami, Florida 33149
 (305) 350-7308
 B-8, B-12, B-18, E-1
 --Ecology and distribution of benthic organisms;
 including studies of the effects of environmental
 conditions (including man-caused additions) on
 them; of animal-sediment relationships; of
 interpretation of the geological record; of
 community or habitat structure, especially
 field life cycles and feeding types; and of
 population fluctuations seasonally or over
 longer periods of time
- 235 Hauser, William Joseph MS
 Research Assistant
 Zoology Department
 University of Maine
 Orono, Maine 04473
 (207) 581-7941
 B-5, B-8, B-17
 --Distribution of ichthyoplankton in relation to
 temperature and salinity
- *236 Haven, Dexter Stearns BS
 Head, Department of Applied Biology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111
 A-1, B-2, B-8, B-18
 --Molluskan biology and ecology; including nutritional
 studies, low oxygen tension determinations,
 growth rate studies of hard clams, determinations
 of methods of control of Urosalpinx cinerea,
 and monitoring of oyster and clam beds
 --Ecology of jellyfish
- 237 Hayes, Helen Landau PhD
 Special Assistant for Science Affairs
 Office of Assistant Secretary for Science
 Smithsonian Institution
 1000 Jefferson Drive
 Washington, D.C. 20560
 (202) 381-6383
 B-1, B-12, Research program planning
 --Biology of bivalve mollusks
 --Estuarine ecology
 --Policy, planning, and administration of estuarine
 research

242 Hidu, Herbert PhD
Assistant Professor
Department of Oceanography
University of Maine
Ira C. Darling Center
Walpole, Maine 04573
(207) 563-3146
B-2, B-8, B-17
--Ecology and physiology of bivalve mollusks
--Marine aquaculture

*243 Higgins, Elizabeth Thornthwaite MA
Instructor
Botany Department
University of Maryland
College Park, Maryland 20740
(301) 454-3812
B-6, B-8, G-6
--Systematics and ecology of vascular flora

244 Higgins, Robert Price PhD
Director, Oceanography and Limnology Program
Office of Environmental Sciences
Smithsonian Institution
Washington, D.C. 20560
(202) 381-6573
B-1, B-12, E-2, Benthic biology (meiofauna)
--Systematics and ecology of meiobenthic invertebrates,
especially Kinorhyncha, Priapulida and Tardigrada

*245 Higman, Daniel MS
Botanist
Chesapeake Bay Center for Environmental Studies
Smithsonian Institution
Box 622, Route 4
Edgewater, Maryland 21037
(301) 798-4424 or (202) 261-4190
B-6, B-8, E-1
--Ecology of vascular wetland plants, particularly
tidal marsh species
--Construction of vegetation maps of salt marshes
by photointerpretation and field surveys
--Factors which govern the distribution of these
plants, and the effects of disturbances on them

- *246 Hill, Richard PhD
Associate Marine Scientist
Department of Ecology-Pollution
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111 ext.35
C-6, C-9, E-3
--Organic and nutrient chemistry
--Water quality studies
- 247 Hillman, Robert Edward PhD
Chief
William F. Clapp Laboratories
Battelle Memorial Institute
Washington Street
Duxbury, Massachusetts 02332
(617) 934-5682
B-8, B-12, E-1
--Estuarine ecology of mollusks, particularly in Long
Island Sound, Massachusetts Bay and Cape Cod Bay
- 248 Hoese, Hinton Dickson PhD
Associate Professor
Biology Department
University of Southwestern Louisiana
Lafayette, Louisiana 70501
(318) 233-3850 ext. 260
B-1, B-8, B-12
--Ecology of fishes and invertebrates
--Biology of Dermocystidium
--Behavior of porpoises
- *249 Hogman, Walter John PhD
Associate Marine Scientist
Department of Ichthyology
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 692-2111 ext.37
A-1, B-9, B-18
--Fisheries biology; including population dynamics
of estuarine and marine species of Chesapeake
Bay, resource utilization of these species by
commercial and sport interests, and surveys and
monitoring of juvenile members of the principal
groups including the clupeides, bass, flatfishes,
drums and others
--Calculation of biological parameters useful in
detecting environmental trends and correlations

- *250 Holden, Barbara Lee MS
 Fisheries Biologist
 Fish and Wildlife Administration
 State of Maryland
 State Office Building
 Annapolis, Maryland 21401
 (301) 267-5362
 B-13, B-15, E-3
 --Fisheries biology; including fish kill investigations,
 determinations of fish parasites and diseases,
 and studies of the effects of chemicals on fish
 tissues as well as on their behavior
- 251 Holt, Buford Reid PhD
 Senior Research Associate
 Biology
 Brookhaven National Laboratory
 Upton, New York 11973
 (516) 924-6262 ext. 2543
 B-6, B-8, B-19, G-6
- *252 Hopkins, Thomas Chattle Jr. BS
 Project Manager
 Department of Water Resources
 Maryland Department of Natural Resources
 State Office Building
 Annapolis, Maryland 21401
 (301) 267-5675
 B-8, E-1, H-2
 --Estuarine ecology, especially water quality management;
 including monitoring and instrumentation determinations
- 253 Horton, Donald B. PhD
 Executive Director
 TRIGOM
 96 Falmouth Street
 Portland, Maine 04103
 (207) 773-2981 ext. 306
 B-8, B-18, G-5
 --Estuarine ecology
 --Fish population behavior
 --Behavior simulation models
- 254 Hoss, Donald Earl PhD
 Fishery Biologist Research
 National Marine Fisheries Service
 Atlantic Estuarine Research Center
 Beaufort, North Carolina 28516
 (919) 728-4595
 B-9, B-16, E-3
 --Physiological ecology of fishes; including studies

of the effects of thermal shock on larvae entrained in power plant cooling systems, of the effects of various types of pollution on rates of oxygen consumption and metabolism, and of the accumulation of radionuclides by fish

* 255 Hoyer, Lawrence Cogswell MED

Assistant Professor of Biology
Biology Department
Hood College

Frederick, Maryland 21701
(301) 663-3131 ext 263

B-12, B-14, B-18

--Population dynamics and growth of Littorina irrorata
York River and Solomons Island areas

256 Huebner, Judith Dee PhD

Presently unemployed

B-8, B-16, Bioenergetics

--Bioenergetics and physiological ecology of large
intertidal invertebrates, especially carnivorous
species, particularly the predatory gastropods
(Polinices duplicatus)

* 257 Huggett, Robert James MS

Marine Scientist
Department of Ecology-Pollution
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111 ext. 84

B-8, C-1, D-2, E-3, H-2

--Chemistry of heavy metals in natural waters including
absorption to bottom sediments
--Distribution of chlorinated hydrocarbon pesticides
and PCB's in Chesapeake Bay
--Analysis and chemistry of unnaturally introduced
oils (i.e. Bunker "C")

258 Hull, Cecil Hale J. --

Staff Engineer
Planning Division
Delaware River Basin Commission
25 State Police Drive
P.O. Box 360
Trenton, New Jersey 08603
(609) 883-9500

E-3, H-2, H-3

--Effects of phytoplankton on the oxygen balance of
polluted estuaries

- 259 Humm, Harold J. PhD
 Director
 Marine Science Institute
 University of South Florida
 St. Petersburg, Florida 33701
 (813) 898-7411 ext. 231
 B-2, B-6
 --Marine algae
- 260 Hunt, George Russell PhD
 Research Manager
 New Business Ventures Division
 3 M Company
 Crow's Nest Drive
 P.O. Box 270
 Buzzards Bay, Massachusetts 02532
 (617) 759-4761
 B-2, E-1, Commercial aquaculture
 --Spawning, maturation and growth studies of oysters and lobsters under controlled conditions in order to provide a decreased life cycle and increased production per unit area
- *261 Hunter, Harriet Ellen BA
 Student
 Department of Crustaceology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext. 66
 B-1, B-12, B-17
 --Studies of adult and larval forms of Emerita talpoida; including ecology, reproductive habits, behavior, salinity tolerances, and migration habits
- 262 Huntsman, Susan Ann PhD
 Research Associate
 Oceanography
 Duke University Marine Laboratory
 Beaufort, North Carolina 28516
 (919) 728-2111 ext. 38
 B-13, B-16, B-17, B-19
 --Phytoplankton physiology; including the utilization of trace metals and the interactions with natural and man-made chelating substances

- *263 Hyer, Paul Vincent PhD
Associate Marine Scientist
Department of Physical Oceanography and Hydraulics
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2211 ext. 39
E-2, F-3, G-5
--Estuarine mathematical models of salinity and
dissolved oxygen distributions in estuaries
- 264 Ichiye, Takash --
Professor
Oceanography
Texas A and M University
College Station, Texas 77843
(713) 845-6661
F-1
--Circulation in estuaries and on the continental
shelf (Northern Gulf of Mexico)
--Storm surges and shelf waves (Gulf of Mexico)
--Diffusion of pollutants (nearshore)
- 265 Isaacson, Peter Alan MA
Aquatic Ecologist
Office of Environmental Planning
NYS Public Service Commission
44 Holand Avenue
Albany, New York
(518) 474-5363
E-1, H-2, H-3
--Resource planning and management as it relates to
public utility use of aquatic resources
- 266 Jackson, Herbert William PhD
Chief Biologist
National Training Center
Environmental Protection Agency
Cincinnati, Ohio 45268
(513) 871-1820 ext. 259
B-8, E-1, E-3
--Recording of the recovery of an area of Spartina
in the Oyster River of Durham, New Hampshire,
which was wiped out by a sludge spill (dump),
probably in 1966

- 267 Jahoda, John Curtis PhD
 Assistant Professor of Biology
 Department of Biological Sciences
 Bridgewater, Massachusetts 02324
 (617) 697-6161 ext. 317
 B-18, B-20, E-1, E-3
 --Salt marsh ecosystem studies; including the ecology
 and dynamics of small mammals and the effects
 of heavy metal contamination and salinity changes
 on the ecosystem itself
- 268 Jamieson, William MS
 Project Engineer
 Grumman Aerospace Corporation
 Department 666
 Bethpage, New York 11714
 516 LR 5
 B-8, E-1, E-3
 --Estuarine pollution ecology
 --Biological indicators
- 269 Jeffries, Harry Perry PhD
 Associate Professor
 Graduate School of Oceanography
 University of Rhode Island
 Kingston, Rhode Island 02881
 (401) 792-6282
 B-17, C-2, E-2
 --Determinations of proportions of living and dead
 materials eaten by commercially important shellfish
 (hard clam, ocean quahog, smooth mussel) and
 fishes (winter flounder and menhaden) based on
 a model of fatty-acid flow in an estuarine
 ecosystem from producers to consumer
 --Determinations of community stability, diversity,
 and succession from patterns of fatty acids and
 free amino acids in the organisms growing
 on submerged plates ("fouling communities")
 --Fisheries biology; including distribution and
 abundance of benthic fishes in Narragansett Bay,
 with emphasis on long-term variations as functions
 of climatic change and environmental alteration

- *270 Jenkins, Dale Wilson PhD
 Director
 Ecology Program
 Smithsonian Institution
 Washington, D.C. 20560
 (202) 381-5946
 B-1, B-4, E-1, Natural areas, remote sensing
 --Remote sensing of the ecology of the Rhode River Estuary
 --Survey of all ecologically important species for preservation in protected and natural areas of the Chesapeake Bay region
 --Evaluation of the impact of activities on federal lands and the effect on ecology
- *271 Jensen, Loren Duane PhD
 Associate Professor
 Department of Geography and Environmental Engineering
 The Johns Hopkins University
 33 North Charles Street
 Baltimore, Maryland 21218
 (301) 366-3300 ext. 605
 B-8, C-9, E-3
 --Estuarine ecology, particularly the applied aspects of domestic and industrial discharges into estuarine areas; temporal and spatial responses of aquatic populations to water quality, including determinations of natural fluctuations in such parameters as temperature, salinity, and dissolved oxygen
- 272 Johnson, Curtis Allen MS
 Associate Professor of Agricultural Engineering
 Food and Agricultural Engineering
 University of Massachusetts
 Agricultural Engineering Building
 Amherst, Massachusetts 01002
 (413) 545-2230
 A-2, B-2, E-3, G-6, H-3, Oyster propagation in off-bottom controlled environments
 --Growth of oysters in controlled conditions
- *273 Johnson, Patricia G. BA
 Biological Laboratory Technician
 Annapolis Field Office
 Environmental Protection Agency
 Annapolis Science Center
 Annapolis, Maryland 21401
 (301) 268-5038 ext. 29
 C-9, E-1, E-3
 --Development and study of automated analytical methods for nutrient chemistry

- * 274 Johnson, Robert Karl PhD
 Research Associate
 Fisheries
 Chesapeake Biological Laboratory
 Solomons, Maryland 20688
 (301) 326-4281 ext. 37
 B-5, B-9, B-20
 --Fisheries biology; including the production and
 distribution of eggs and larvae, especially with
 regard to environmental impact effects of man-made
 changes
- *275 Jonas, Lilburn Leroy Jr. BA
 Biologist
 Water Quality Investigation and Enforcement Division
 Maryland Department of Water Resources
 State Office Building
 Annapolis, Maryland 21401
 (301) 267-5732
 B-1, B-6, C-9
 --Pollution abatement, control and ecology
 --Environmental monitoring
- 276 Jones, Galen Everts PhD
 Director
 Jackson Estuarine Laboratory-Microbiology
 University of New Hampshire
 Durham, New Hampshire 03824
 (603) 862-2175
 B-13, C-2, C-3
 --Effect of heavy metals on marine bacteria
 --Chemolithotrophic bacteria, particularly sulfur
 bacteria, and psychrophilic bacteria in the
 marine environment
- 277 Jontos, Robert Jonathon MS
 Teacher, Central High School
 City of Bridgeport - Board of Education
 45 Lyon Terrace
 Bridgeport, Connecticut 06606
 (203) 333-8551 and (203) 333-2604
 B-1, B-8, Marsh ecology
 --Effects of salinity upon the pituitary, thyroid
 and caudal neurosecretory system of the
 american eel (A. nostrata)
 --Coastal wetlands, including seasonal changes in the biota

- *278 Jordan, Robert A. PhD
Associate Marine Scientist
Department of Ecology-Pollution
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111 ext.35
B-17, B-19, E-3
--Eutrophication
--Algal ecology
--Productivity
- *279 Joyce, John M. PhD
Oceanographer
Chesapeake Bay Center for Environmental Studies
Radiation Biology Laboratory
Smithsonian Institution
Route 4, Box 622
Edgewater, Maryland 21037
(301) 798-4424
B-8, B-17, B-19
--Phosphorus cycling in the estuarine ecosystem
--Productivity studies on marshes, attached algae,
and phytoplankton, as well as phosphorus uptake
in these components
- *280 Karlander, Edward P. PhD
Associate Professor, Plant Physiology and Biophysics
Department of Botany
University of Maryland
College Park, Maryland 20742
(301) 454-3821
B-19, E-2, F-5, F-6, Energy budgets
--Physical energy budget, including radiation from the
sun, of the Chesapeake Bay and its associated
wetlands; including the biological, physical,
and thermal changes in response to variations in
quality and quantity of energy fluxes
- *281 Kayser, Sigrid R. BA
Chemist
Annapolis Field Office
Environmental Protection Agency
Annapolis Science Center
Annapolis, Maryland 21401
(301) 268-5038 ext. 29
C-1, C-7, C-9
--Determination and identification of pesticides and
petroleum products in water sediment and effluent
systems

- *282 Kazama, Frederick Yoshio PhD
 Marine Scientist
 Department of Microbiology-Pathology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111
 B-1, B-6, B-13
 --Ultrastructure, nutrition and other physiological activities of estuarine Phycomycetes, especially of species of Phlyctochytrium and Thraustochytrium
 --Distribution of fungi associated with decaying Spartina sp. along a salinity gradient, including cellulolytic and pectolytic activity of these isolates
- 283 Keck, Richard Thomas MS
 Resident Biologist
 College of Marine Studies
 University of Delaware
 P.O. Box 286
 Lewes, Delaware 19958
 (302) 645-8489
 B-1, B-2, B-8, B-12, C-2
- 284 Keith, Willis J. BA
 Marine Biologist II
 South Carolina Wildlife Resources Department
 Marine Resources Division
 217 Fort Johnson Road
 Charleston, South Carolina 29412
 (803) 795-7271
 A-1, B-1, H-2
 --Management and conservation practices of the shellfish areas of South Carolina, especially of intertidal oysters
 --Investigation of aerial photography for shellfish inventory purposes
- 285 Kendall, Arthur Wayne MS
 Fishery Biologist
 Ichthyoplankton
 Sandy Hook Laboratory
 Fort Hancock
 Highlands, New Jersey 07732
 (201) 872-0200 ext. 57
 B-5, B-9, B-17
 --Fisheries biology; including studies of offshore spawning areas and of migrations of young stages to estuaries, especially of clupeids and bluefish

* 286 Kendall, Paul Charles BS
 Research Assistant
 Department of Applied Biology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23061
 (703) 642-2111 ext. 85

H-2

--Possible methods of management of the oyster industry

287 Keney, Peggy Mobley BS
 Fishery Biologist
 Department of Commerce
 National Marine Fisheries Service
 Atlantic Estuarine Fisheries Service
 Beaufort, North Carolina 28516
 (919) 728-4595 ext. 23

B-1, B-8, B-12

--Identification of crab larvae

*288 Kennedy, Victor Stuart PhD
 Research Associate
 Chesapeake Biological Laboratory
 University of Maryland
 Hallowing Point Field Station
 Prince Frederick, Maryland 20678
 (301) 535-2121

B-8, B-12, E-3

--Physiological ecology

--Invertebrate adaptations

--Effects of environmental alterations

*289 Kerby, Catherine Jane PhD
 Research Analyst, Office of Oceanography
 and Limnology
 Office of Environmental Sciences
 Smithsonian Institution
 Washington, D.C. 20560
 (202) 381-6572

B-8, B-12, B-16

--Biology of polychaetes, especially of Sabella
microphthalma, found in Chesapeake Bay; including
 taxonomical, ecological, physiological, behavioral,
 reproductive and life history studies

290 Kerhin, Randall Thomas MA
 Geologist
 Coastal and Estuarine Geology
 Maryland Geological Survey
 214 Latrobe Hall
 The Johns Hopkins University
 Baltimore, Maryland 21218
 (301) 235-0771

- Determination of the sediment distribution and bottom topography of nearshore environments as related to coastal processes
- Sedimentational patterns of the beach and nearshore environments and factors relating to such sedimentation patterns

* 291 Kerwin, James Arthur MA
 Oceanographer
 Bureau of Sport Fisheries and Wildlife
 Patuxent Wildlife Research Center
 Laurel-Bowie Road 197
 Laurel, Maryland 20810
 (301) 776-4880 ext. 286

- B-1, B-6, B-8, E-2
 --Diving duck habitats in Chesapeake Bay
 --Study of submerged aquatic plants
 --Tidal marsh ecology

* 292 Kiger, Robert W. PhD Cand.
 Graduate Research Assistant
 Botany Department
 University of Maryland
 College Park, Maryland 20742
 (301) 454-3812

- B-4, B-6
 --Vascular flora of Chesapeake Bay

293 King, Howard James III BS
 Biologist III
 Department of Natural Resources
 Fish and Wildlife Administration
 Wye Mills Regional Office (Eastern)
 Wye Mills, Maryland 21679
 (301) 827-8122

- B-8, B-9, H-2
 --Fisheries biology, especially of anadromous fish;
 including documenting physical or chemical
 barriers in streams to ascending fish
 --Chemical and physical parameters of streams

294 King, William C. --
 Seafood Sanitarian
 Food Control
 Department of Health and Mental Hygiene
 61 North Howard Street
 Baltimore, Maryland 21201
 (301) 383-2625

- B-10, E-1, G-2
 --Bacteriological monitoring of waters for classification

- for shellfish harvesting and of shellfish in the processing plants of Maryland
- Pesticide - heavy metal monitoring of major harvest areas
- Shoreline survey of watersheds to find, and correct by legal action, the introduction of sewage from commercial or private structures
- Monthly sampling of sewage treatment effluents
- Resistance of Vibrio parahaemolyticus in oyster shellstock under normal refrigeration
- Modification of handling techniques directed to reduction or stasis of bacteria in seafood products

295 Kinnear, Brian S. MS
 Research Biologist
 National Marine Fisheries Service
 NOAA
 Northeast Fisheries Center
 Narragansett Laboratory
 P.O. 522A Narragansett
 Narragansett, Rhode Island 02882
 (401) 789-9326

B-5

- Ichthyoplankton collected by NMFS vessels on MARMAP or Northeast Fishery Center cruises in the North Atlantic

*296 Kinsman, Blair PhD
 Program Coordinator
 Chesapeake Bay Center for Environmental Studies
 Smithsonian Institution
 Route 4 Box 622
 Edgewater, Maryland 21037
 (301) 798-4424

E-2, F-3, G-1

- Estuarine hydrodynamics and circulations
- Air-sea interface studies
- Survey design
- Data storage and handling

297 Klarman, William L. PhD
 Associate Professor of Plant Pathology
 Botany Department
 University of Maryland
 College Park, Maryland 20742
 (301) 454-3816

B-6, B-8, B-13

- Diseases of rooted aquatic plants, especially the determinations of their range, their scope, and

the factors, particularly ones resulting from increased civilization, which influence these diseases

*298 Kocan, Richard Michael PhD
Research Parasitologist
Department of the Interior
Fish and Wildlife Service
Patuxent Wildlife Research Center
Laurel, Maryland 20810
(301) 776-4880

B-13, B-14, B-15

--Infectious and parasitic diseases of wild waterfowl
on the Chesapeake Bay

299 Kohlmeyer, Jan Justus PhD
Associate Professor
Institute of Marine Sciences
University of North Carolina
Morehead City, North Carolina 28557
(919) 726-6841

B-6, B-13, Marine mycology

--Marine fungi; taxonomy, morphology, ecology, geographical
distribution, biodeterioration, and relationships
to wood-boring animals

*300 Koo, Ted S.Y. PhD
Research Professor
Natural Resources Institute
University of Maryland
Chesapeake Biological Laboratory
Box 38
Solomons, Maryland 20688
(301) 326-4281 ext. 21

A-1, B-2, B-5, B-8, B-9, B-18, H-2

--Fisheries biology; including studying population
dynamics, determining age, tagging juveniles,
and sonic tagging of the striped bass of
Chesapeake Bay

--Ecological effect of the Chesapeake and Delaware Canal

*301 Kotz, Mary Inez MeD
Instructor
Science and Mathematics
Chesapeake College
Wye Mills, Maryland 21679
(301) 758-1537

B-8, B-12, B-16, B-17, B-18, C-1, C-2, C-9, E-1, E-3,
G-6

--Pollution biology; including the effects of dredging

on phytoplankton and zooplankton and the effects
of the effluents of manufacturing concerns
on the ecology of a marsh area

- *302 Kouch, John Alexander PhD
Pathologist-Aquatic
Environmental Protection Agency
Sabine Island
Gulf Breeze, Florida
B-5, B-12, B-13, B-15, C-7, E-3, G-7
--Diseases of estuarine invertebrates, especially of
Callinectes sapidus
--Effects of pesticides on the tissues of marine and
estuarine organisms
- 303 Kraeuter, John Norman PhD
Research Associate
Marine Institute
University of Georgia
Sapelo Island, Georgia 31327
(912) 485-2333
B-1, B-12, E-2
--Systematics and distribution of estuarine infaunal
invertebrates
--Role of invertebrate feces in nutrient recycling
in marine systems
--Animal-sediment relationships
- *304 Kriete, William Henry Jr. BS
Research Assistant
Department of Ichthyology
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111 ext. 66
A-1, B-1, B-8, B-9
--Fisheries biology; including studies of population
migration patterns, especially as a result of
changes in temperature or salinity; of age; of
growth rates; of spawning rates; of population
size; of year class strength as determined by
tagging, etc; and of the effects on populations
of commercial fishing

- 305 Kruczynski, William Leonard PhD
 Assistant Professor of Biology
 Biology Department
 Hartwick College
 Oneonta, New York 13820
 (607) 432-4200 ext. 238
 B-8, B-12, B-15
 --Association of pea crabs and their host molluscs
- * 306 Krusberg, Lorin Ronald PhD
 Professor
 Botany Department
 University of Maryland
 H.J. Patterson Hall
 College Park, Maryland 20742
 (301) 454 - 3816
 B-6, C-2, Nematology
 --Biology of nematodes parasitic on estuarine and
 aquatic plants
- * 307 Kuo, Albert Y. PhD
 Associate Marine Scientist
 Department of Physical Oceanography and Hydraulics
 Virginia Institute of Marine Science
 Gloucester Point, Maryland 23062
 (703) 642-2111 ext.45
 E-2, F-3, G-5
 --Estuarine hydrodynamics
 --Turbulence, particularly the diffusion in turbulent
 flow
- 308 Kutkuhn, Joseph Henry PhD
 Fishery Research Biologist
 USDI Fish and Wildlife Service
 Great Lakes Fishery Laboratory
 Box 640
 Ann Arbor, Michigan 48107
 (313) 769-7100 ext. 461
 A-1, B-18, H-2
 --Ecology, including dynamics of estuarine fish
 and shellfish populations, especially of menhaden
 and penaid shrimps

- * 309 LaBuy, James Leonard BS
 Aquatic Biologist
 Law Enforcement
 Charlottesville Virginia Laboratory
 Environmental Protection Agency
 1140 River Road
 Charlottesville, Virginia 22901
 (703) 296-9897
 B-9, B-12, B-17, E-1
 --Water quality studies, especially in relation to
 planktonic and benthic organisms and fishes
- 310 Lacroix, Guy PhD
 Associate Professor and Executive Secretary
 GIROQ
 Department of Biologie Universit   Laval
 Quebec (10e) Quebec, Canada
 (418) 656-2864
 B-8, B-17, B-19
 --Primary production and ecology of zooplankton in the
 St. Lawrence Estuary and the Gulf of St. Lawrence
- * 311 Lakshmanan, Sitarama PhD
 Associate Professor
 Biochemistry Division
 Chemistry Department
 University of Maryland
 College Park, Maryland 20742
 (301) 454-2620
 B-12, C-2, E-3
 --Studies of the oyster Crassostrea virginica;
 including its development as a laboratory animal
 and the impact of man-made alterations in the
 Chesapeake Bay on its biochemistry and nutrition
- * 312 Lanier, James Alfred MA
 Education Program Director
 Department of Information and Education
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext. 89
 A-1, B-2, B-5, B-9
 --Fisheries biology; including catfish management,
 effects of thermal shock on fish eggs and larvae,
 culture techniques, and design and management
 of aquarium systems

--Study of trace element enhancement through trophic levels by neutron activation analysis and A.A. spectrophotometry of estuarine sediments (including interstitial water and fecal pellets), benthic fauna and pelagic fishes

--Benthic sampling to determine species abundance, distribution, and biomass

--Diseases of fishes

- Studies of oysters; including the environmental history of oyster communities through time, aquaculture, dynamics of oyster populations, and periodic growth fabrics in oysters and

their use in the studies of dynamics
--Animal orientation patterns in estuaries

- *317 Lear, Donald W. PhD
Microbiologist, Chief Biology Section
Annapolis Field Office
Environmental Protection Agency
Annapolis Science Center
Annapolis, Maryland 21401
(301) 268-5038 ext. 22
B-8, B-13, B-17, C-9, E-1, E-2, E-3
--Application of ecological knowledge and progress
to water quality management
- 318 Lee, John Joseph PhD
Professor
Biology Department
City College of New York
Convent Ave. at 138th Street
New York, New York 10031
(212) 621-2549
B-8, B-12, B-13, B-16, B-17, B-18, B-19, E-1, G-6,
H-2, H-3
--Microbial ecology
--Special growth factors of dinoflagellates,
Foraminifera, diatoms, and nematodes
--Mineral cycling, energy flow, succession,
community dynamics and population structure
of salt marsh "aufwuchs" communities
--Water quality indices
- 319 Leonard, John Robert MS
Fishery Biologist Research
Department of the Interior
National Fisheries Center and Aquarium
18th and E Streets N.W.
Washington, D.C. 20240
(202) 967-2551
B-2, C-9, E-1
--Study of Chesapeake Bay fish and crabs retained in
closed-recirculated aquariums, including water-
quality monitoring and determining the effects
of various filter materials on the growth and
survival of the organisms

- *320 Lewis, Charles Edward BES
 Faculty Research Assistant
 Bay Model Study
 Chesapeake Biological Laboratory
 Box 38
 Solomons, Maryland 20688
 (301) 326-4281 ext 69
 A-2, G-1, G-5
 --Instrumentation
 --Prototype data gathering for Chesapeake Bay hydrographic model
- 321 Lewis, Robert M. MS
 Fishery Biologist(Research)
 Department of Commerce
 NOAA
 National Marine Fisheries Service
 Pivers Island
 Beaufort, North Carolina 28516
 (919) 728-4595 ext.29
 B-8, B-9, B-16
 --Fisheries biology; including life history studies of Atlantic menhaden in North Carolina estuaries, determination of the relation of abundance and distribution of young menhaden and associated species to environmental factors (temperature, salinity, tide,etc.) and determination of the tolerance of menhaden to different temperature and salinity levels
- 322 Light, Melvin AB
 Chief Coastal Oceanography Section
 Coast Guard Oceanographic Unit
 Department of Transportation
 U.S. Coast Guard
 159 E
 Navy Yard Annex Building
 Washington, D.C. 20390
 (202) 426-4640
 C-9, E-1, F-5
 --Oil pollution monitoring program of estuarine and coastal waters

- * 323 Linert, Charles Henry MS
 Biologist I
 Maryland Department of Natural Resources
 Fish and Wildlife Administration
 State Office Building
 Annapolis, Maryland 21401
 B-9, E-1, H-2
 --Fisheries biology; including determination of
 anadromous fish associated with wetlands; their
 seasonal variability of occurrence; estimation
 of their standing crop; their relationships with
 wetland dependent competitors, predators, and
 forage species; and their association with the
 chemical and physical characteristics of the
 wetland aquatic habitat
 --Baseline study of the chemical and physical
 characteristics of the wetland aquatic habitat
- 324 Link, Garnett William MA
 Graduate Student
 Department of Zoology and Institute of Marine
 Sciences
 University of North Carolina
 Morehead City, North Carolina 28557
 (919) 726-6841
 B-5, B-20, Marine ichthyology
 --Fisheries biology; including the comparative life
 histories of three species of sea basses
 (Centropristis striatus, C. philadelphicus
 and C. ocyurus) found in the estuaries and
 off the coast of North Carolina
- * 325 Lippson, Robert Lloyd MS
 Fisheries Biologist
 Resource Assessment
 National Marine Fisheries Service
 Oxford, Maryland 21654
 (301) 226-5193
 A-1, B-8, B-12
 --Crustacean ecology; including assessment of the
 size of commercial stocks
- * 326 Loesch, Joseph George PhD
 Associate Marine Scientist
 Applied Science Department
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext.85
 B-9, B-18, G-6
 --Distribution, abundance and growth of the hard
 clam, Mercenaria mercenaria, in lower Chesapeake Bay

- * 327 Loftus, Michael Eldridge BS
 Graduate Student
 Biology Department
 The Johns Hopkins University
 34th and Charles Streets
 Baltimore, Maryland 21218
 (301) 366-3300 ext. 408
 B-16, B-17, B-19
 --Methods involved in determining rates of primary productivity and their relation to the nutritional and physiological condition of several algal species isolated from the Chesapeake Bay
 --Correlation of laboratory conditions of certain species with conditions preceding and during seasonal periods in which the same species are dominant in the Chesapeake Bay region adjacent to the mouths of the Rhode and West Rivers
 --Algal blooms
- * 328 Longcore, Jerry Ray MS
 Research Biologist
 Department of the Interior
 Bureau of Sport Fisheries and Wildlife
 Patuxent Wildlife Research Center
 Laurel, Maryland 20810
 (301) 776-4880 ext. 283
 B-14, C-7, E-3
 --Monitoring pollutants in waterfowl (ducks and geese), especially in their wings and eggs
 --Wintering ecology of waterfowl
- * 329 Longwell, John R. MS
 Assistant Chief
 Water Quality Investigation and Enforcement Division
 Maryland Department of Water Resources
 State Office Building
 Annapolis, Maryland 21401
 (301) 267-5731
 E-1, E-3, H-2
 --Administration and investigations of water quality

- *330 Lucy, John Allen BS
 Graduate Student and Assistant
 Department of Applied Biology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext.85
 A-1, B-1, B-2, B-8, B-9, B-12, C-1, D-8, G-2, G-6,
 G-7, H-2
 --Intertidal community structure and ecology
 --Aquaculture, especially of bivalves
 --Commercial shellfisheries
 --Marine extension services
- *331 Ludwick, John Calvin PhD
 Director and Professor
 Institute of Oceanography
 Old Dominion University
 Norfolk, Virginia 23508
 (703) 489-8000 ext.455
 D-8, E-2, F-1
 --Tidal currents in the entrance to Chesapeake Bay
 --Shoals and their origin
- *332 Lunz, John David MS
 Assistant Marine Scientist
 Department of Pollution-Ecology
 Virginia Institute of Marine Science
 521 Bulkeley Place Apt. 25
 Newport News, Virginia 23601
 (703) 642-2111 ext.35
 B-16, C-1, E-3
 --Uptake and release of trace elements by estuarine
 organisms, specifically as these processes
 relate to the overall transport within the
 marine system
 --Bioconcentration and depuration of metals in oysters
 as a function of the physical and chemical
 properties of a metal in the environment
- *333 Luttrell, Mark Edwyn MS
 Assistant Marine Scientist
 Department of Ecology-Pollution
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext.50
 C-1, Sanitary engineering, Civil engineering
 --Industrial-municipal outfall studies
 --Estuarine data analysis; including DO, BOD-COD,
 coliform and benthos dredging studies, and
 impact determinations

- * 334 Lynch, Maurice Patrick PhD
Associate Marine Scientist
Directors Office
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111
B-8, B-16, G-3
--Environmental physiology, especially of invertebrates
--Development of physiological indicators of condition
for use in detecting changes in invertebrate
populations as a result of sublethal stresses
- 335 Lynn, Dickson Kenneth PhD
Assistant Professor and Assistant Director
Center for Environmental Studies
Virginia Polytechnic Institute
1020 Derring Hall
Blacksburg, Virginia 24061
(703) 552-6780
B-12, B-18, E-1
--Effects of toxic materials on estuarine organisms,
including fish, invertebrates and algae
--Effects of stress on physiology, community structure
and functions of aquatic communities
- * 336 McCormick, Jack PhD
President
Jack McCormick and Associates
860 Waterloo Road
Devon, Pennsylvania 19333
(215) 687-1295
B-8, E-1, G-2, H-2, H-3, Environmental impact assessments
--Tidal marsh and lowland forest vegetation mapping,
vegetation analysis, analysis of animal populations,
environmental impact assessments for NEPA statements
and project planning
--Environment monitoring and reassessment
--Preparation of draft environmental guidelines,
regulations, zoning codes, building codes and
legislation
- 337 McCormick, Michael Edward PhD
Associate Professor and Chairman
Naval Systems Engineering
U.S. Naval Academy
Annapolis, Maryland 21402
(301) 267-3874
E-3, F-3, G-5, G-6, Environmental protection
--Estuarine hydromechanics
--Waves on floating and fixed bodies
--Environmental protection

338 McCoy, Edward Gordon MS
Chief, Research and Development Section
Commercial and Sports Fisheries
Department of Natural and Economic Resources
P.O. Box 769
Morehead City, North Carolina
(919) 326-7021

B-1, B-8, B-9

--Management of North Carolina commercial and marine sports fisheries; including inventory, survey, monitoring, anadromous fish studies in the Albemarle Region and offshore, calico scallop study offshore, shrimp research, nursery area identification, oyster rehabilitation, and permit investigation for dredge and fill in estuaries

339 McCrary, Anne Bowden PhD
Assistant Professor
Biology Department
University of North Carolina at Wilmington
P.O. Box 3725
Wilmington, North Carolina 28401
(919) 791-4330 ext. 250

B-1, B-12, B-17

--Zooplankton studies, particularly the planktonic larvae of invertebrates

--Seasonal timing of reproductive activity in invertebrates

--Commensal associations

*340 McDowell, Samson PhD
Retired
Gulf Plankton Laboratory (Retired)
Academy of Natural Sciences of Philadelphia
19th Street and the Parkway
Philadelphia, Pennsylvania 19104
(813) 463-5535

B-1, B-8, B-17

--Ecology of Protozoa

--Identification of microniches

*341 McEachran, John Douglas MA
Graduate Research Assistant
Department of Ichthyology
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111

B-4, B-5, B-9

--Comparative biology of seven species of skates
which occur along the continental shelf from
Nova Scotia to Cape Hatteras

*342 McErlean, Andrew Joseph PhD
Senior Staff Biologist
Office of Technical Analysis
Environmental Protection Agency
Waterside Mall S.W.
Washington, D.C. 20460

B-5, B-18, E-3, Estuarine pollution ecology

--Biota of Chesapeake Bay; including measurement of
change, development of indicator criteria for
estuarine communities

343 McGill, David A. PhD
Professor
Ocean Science
U.S. Coast Guard Academy
New London, Connecticut 06320
(203) 443-8463

B-8, B-19, C-9

--Examination of productivity and biomass of a typical
estuarine region; including seasonal checks on
the availability of nutrients and seasonal
collections of plankton and benthos to provide
material for energy evaluations leading toward
the calculation of trophic dynamics for the system

*344 McGinnes, Franklin Pierce BS
Executive Vice President
Virginia Seafoods Inc.
Irvington, Virginia 22480
(703) 438-2111

A-4, B-2, G-2

--Operating an oyster hatchery

345 McHugh, John Laurence PhD
Professor of Marine Resources
Marine Sciences Research Center
State University of New York
Stony Brook, New York 11790
(516) 246-3449

A-1, B-8, B-9, G-6, H-2

--History of the fisheries of New York State and the
Middle Atlantic Bight

--National and international fishery management

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SMITHSONIAN INSTITUTION WASHINGTON DC OCEANOGRAPHY A--ETC F/6 6/6
SCIENTIFIC PERSONNEL RESOURCE INVENTORY: LIST AND INDEX TO RESE--ETC(U)
JUN 72 C KERBY, A J MCERLEAN

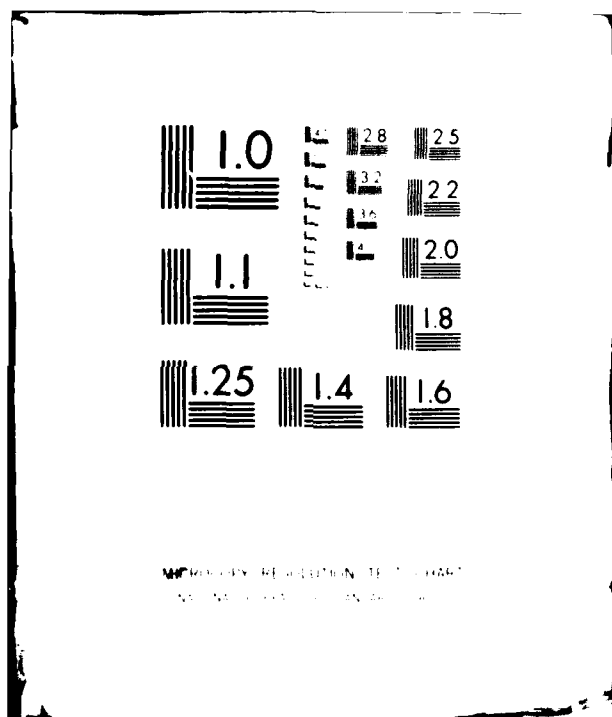
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--Economic and social-political barriers to
management of natural resources
--Critical problems of the coastal zone

*346 McLean, Richard Ivan BS
Radioecologist
Department of Limnology
Academy of Natural Sciences of Philadelphia
Benedict Estuarine Laboratory
Benedict, Maryland 20612
(301) 274-3194

B-8, E-1, Radioecology
--Distribution of radionuclides in the aquatic ecosystems
with particular emphasis on the cycling within
estuarine food chains

347 McLeod, Guy Collingwood MA
Director of Research
New England Aquarium
Central Wharf
Boston, Massachusetts 02110
(617) 742-8830

B-8, E-1, G-1
--Water quality monitoring
--Trace metal analysis
--Bioassay studies
--Systems of modeling
--Algal productivity

* 348 McMahon, John Walter PhD
Associate Research Officer
Biology and Health Physics Division
Atomic Energy of Canada Ltd.
Chalk River
Ontario, Canada
(613) 584-3311 ext. 258

B-7, B-15, B-17, B-19
--Biology of trematodes living of fish gills

349 McNicol, Douglas --
President
Bluenose Oyster Farms Ltd.
RR # 2
River Denys, Nova Scotia, Canada
(914) Whycocomagh 172-32

A-1, B-2, G-2
--Developing oyster culture methods and equipment

- * 350 McPherson, Evelyn M. --
 Physical Science Technician
 Annapolis Field Office
 Environmental Protection Agency
 Annapolis Science Center
 Annapolis, Maryland 21401
 (301) 268-5038 ext. 29
 C-1, C-9, E-3
- * 351 MacIntyre, William Gordon PhD
 Associate Marine Scientist
 Department of Oceanography
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111
 C-1, C-3, C-5
 --Oil (petroleum) fate and transport
 --Bay mouth nutrient flux measurements
 --Kinetics of silicate-sea water solute interactions
- 352 Malouf, Robert Edward MS
 Resident Biologist
 College of Marine Studies
 University of Delaware
 Sea Grant Demonstration Project
 Lewes, Delaware 19958
 (302) 645-8489
 B-2, B-12, B-17
 --Invertebrate biology; including energy relationships
 in bivalve molluscs and density dependent
 relationships between bivalve larvae and their
 phytoplankton food source
 --Mariculture studies
- * 353 Mangum, Charlotte Preston PhD
 Associate Professor
 Department of Biology
 College of William and Mary
 Williamsburg, Virginia 23185
 (703) 229-3000 ext. 240
 B-1, B-12
 --Invertebrate biology; including adaptations of
 organisms to low oxygen conditions and effects
 of temperature on their metabolism and activity

- *354 Manzi, John Joseph MS
 PhD Candidate
 Department of Microbiology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext. 14
 B-8, B-17, B-19
 --Phytoplankton community structure in the lower
 York River
- *355 Marcellus, Kenneth Lee PhD
 Associate Marine Scientist
 Department of Ecology - Pollution
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext. 50
 B-6, B-8, Remote sensing of wetlands
 --Wetland studies; including relationships between
 marshes and commercially and recreationally
 valuable organisms; determination of the
 importance to the marine environment of specific
 marshes, application of remote sensing (photographic)
 in the evaluation of wetlands, especially of
 plant species identification without need for
 ground truth data; and an analysis of the
 environmental impact on wetland areas (the
 coastal zone in general) of specific development
 projects such as dredging, and bulkheading
 --Aquaculture
 --Environmental law
 --Principles and applications of coastal zone management
- *356 Marchello, Joseph M. PhD
 Professor and Head
 Chemical Engineering Department
 University of Maryland
 College Park, Maryland 20742
 (301) 454-2431
 A-3, E-3, F-4, F-6, G-6, H-1, H-2, H-3
 --Use of waste heat and sewage in fish farming
 --New methods for combating thermal pollution
- 357 Marcy, Barton Coles Jr. MS
 Marine Research Biologist
 Resident Fishes and Plankton
 Essex Marine Laboratory, Inc.
 Novelty Lane
 Box 367
 Essex, Connecticut 06426
 (203) 767-8131
 B-5, B-17, E-3
 --Ecological study of the effects of a Connecticut

atomic power company; including creel census evaluation; abundance and distribution studies; plankton surveys; entrainment of fish eggs and larvae; growth of eggs and larvae in the laboratory; tagging to determine migration patterns; winter population estimates; physiological studies; location of shad spawning areas; population estimates of juvenile shad and emigration rates; age, growth, stomach analyses and fecundity of major species; sonic tracking; plant intake evaluation; and reactions of young shad to heated effluent

- * 358 Marhsco, Richard J. PhD
Assistant Professor
Agricultural and Resource Economics Department
University of Maryland
College Park, Maryland 20742
(301) 454-3801
A-1, E-3, G-1, G-5, G-6, H-1, H-2, H-3
--Fisheries economics
- * 359 Marks, Colin Herbert PhD
Associate Professor
Mechanical Engineering Department
University of Maryland
College Park, Maryland 20742
(301) 454-2408
A-2, E-3, F-3
--Sea nettle barrier development
--Oil containment studies
--Mixing of stably stratified fluids, including thermal pollution studies
- * 360 Marks, James W. BS
Supervisory Chemist, Analytical Laboratory
Annapolis Field Office
Environmental Protection Agency
Annapolis Science Center
Annapolis, Maryland 21401
(301) 268-5038 ext.0
C-1, C-5, C-9
- 361 Marsh, George Alex PhD
Assistant Professor of Ecology
Department of Biological Sciences
Florida Atlantic University
Boca Raton, Florida 33432
(305) 395-0339
B-8
--Epifaunal invertebrates and algal epiphytes associated

with eelgrass (Zostera) in the lower York River,
Virginia

--Invertebrate epifauna of turtle grass (Thalassia)
in Pine Island Sound, Florida

362 Marsh, James Alexander Jr. PhD
Assistant Professor
Marine Laboratory
University of Guam
P.O. Box EK
Agana, Guam 96910
749-2421

B-8, B-19, E-3

--Primary productivity

--Reef ecology

--Effects of thermal pollution on tropical communities

363 Marshall, Benjamin Lawrence BS
Director
Marine Ecology-Chemical Analysis Division
Marine Research Institute
P.O. Box 1253
Duxbury, Massachusetts 02332
(617) 934-2196

B-2, B-8, B-18, C-1, C-9, D-2, E-1, F-1, F-6, G-4,
G-5, H-2, H-3, Bioassay studies

--Physiological ecology, population dynamics, and
larval culture of marine invertebrates,
especially in relation to marine pollutants

--Analytical testing on a wide variety of chemical
substances including pesticides and heavy metals

364 Marshall, Nelson PhD
Professor of Oceanography
Graduate School of Oceanography
University of Rhode Island
Kingston, Rhode Island 02881
(401) 792-6185

B-1, B-8, B-19, E-2, H-3

--Trophic studies in shallow estuarine environments

*365 Martin, John Varick PhD
Assistant Research Scientist
Department of Earth and Planetary Sciences
The Johns Hopkins University
North Charles and 33rd Streets
Baltimore, Maryland
B-6, B-8, B-17, G-7, G-8
--Phytoplankton analyses for power plant siting studies

- 366 Massmann, William Henry MA
 Fishery Research Specialist
 Division of Federal Aid
 Bureau of Sport Fisheries and Wildlife
 Department of the Interior
 Washington, D.C. 20240
 (202) 343-5603
 B-8, B-9, H-3
 --Research administration
- 367 G.C. Matthiessen --
 Marine Research, Inc.
 East Wareham, Massachusetts 02538
 A-1, B-1, E-1
- 368 Maturo, Frank J.S. Jr. PhD
 Associate Professor
 Zoology Department
 University of Florida
 Gainesville, Florida 32601
 (904) 392-1566
 B-1, B-8, B-12
 --Systematics, zoogeography, ecology, larval behavior
 and development of Bryozoa
- 369 Maurer, Don Leo PhD
 Assistant Professor
 College of Marine Studies
 University of Delaware
 Field Station
 Lewes, Delaware 19958
 (302) 645-8489
 B-2, B-8, B-12
 --Benthic ecology of invertebrates
- 370 Mayo, Judy Hartman MS
 Fishery Biologist
 Department of Commerce
 NOAA
 NMFS
 Atlantic Estuarine Fisheries Center
 Beaufort, North Carolina 28516
 (919) 728-4595 ext. 25
 B-9, B-17, E-1
 --Fisheries biology; including aging of American shad
 and menhaden and sorting and identifying fish
 larvae from estuaries and nearshore surveys
 --Blue crab (Callinectes sapidus) studies
 --MARMAP sampling

371 Mazurkiewicz, Michael

PhD

Assistant Professor
Biology and Oceanography
University of Maine
Darling Marine Laboratory
Walpole, Maine 04573
(207) 563-3146

B-8, B-12, B-15

--Ecology; with emphasis on parasitism, diseases and
mechanisms of dispersal and population -
recruitment of invertebrates

--Biogeography

372 Meade, Robert H.

--

Research Hydrologist
U.S. Geological Survey
Woods Hole, Massachusetts 02543
(617) 548-8533

C-4, D-8, E-3

--Sources, transport and deposition of estuarine sediments

--Mixing of fresh and salt waters

*373 Meanley, Brooke

MA

Biologist
Department of the Interior
Bureau of Sport Fisheries and Wildlife
Patuxent Research Center
Laurel, Maryland 20810
(301) 776-4880 ext.215

--Ecology of birds, especially of red-winged blackbird
and rail populations

374 Meldrim, John W.

PhD

Senior Research Biologist
Experimental Laboratories
Ichthyological Associates
Box 35, RD 2
Middletown, Delaware 19709
(302) 378-9626

B-8, E-3, Fish behavior

--Fisheries biology; including behavioral responses
to temperature, oxygen and chemical compounds
of estuarine fishes and ecological effects of
chemical and power industries on fish populations

--Site selection for nuclear power plants

--Development of criteria to assess the extent of human perturbation on the aquatic ecosystem at surface waters of the continental U.S.

379 Michael, Allan Donald PhD
Research Associate
Marine Biological Laboratory
Woods Hole, Massachusetts 02543
(617) 548-3705 ext. 502

B-8, B-12, E-3

--Systematics and ecology of Amphipoda

--Data analysis

--Benthic community structure

380 Mikolaities, Julius M. AB
Marine Biologist
U.S. Department of the Army
Corps of Engineers
424 Trapelo Road
Waltham, Massachusetts 02154
(617) 894-2400 ext. 521

B-1, B-8, H-3

--Investigating water resource projects, coastal and inland, in the New England - New York area

381 Miller, Don Curtis PhD
Research Aquatic Biologist
National Marine Water Quality Laboratory
Environmental Protection Agency
P.O. Box 398
Johns Island, South Carolina 29455
(803) 559-0371

B-8, B-12, E-3

--Physiological ecology of estuarine and coastal organisms

--Elucidation of the environmental requirements of certain marine fishes and invertebrates of the Southeast

*382 Miller, James R. PhD
Professor and Head
Agronomy Department
University of Maryland
College Park, Maryland 20742
(301) 454-3718

B-16, E-3, Soil science

--Wetlands studies

--Classification and use of soils in the Chesapeake Bay area

- * 383 Miller, Robert Edwin BS
 Faculty Research Assistant
 Natural Resources Institute
 University of Maryland
 Chesapeake Biological Laboratory
 Box 38
 Solomons, Maryland 20688
 (301) 326-4281 ext.64
 B-8, B-12, B-18, G-7, H-1, H-2, H-3
 --Blue crab survey project
 --Larval crustacean studies
- 384 Mills, Margaret Ann MS
 Assistant Director
 Cape Cod Bay Biotic Census
 Marine Biological Laboratory
 LOEB Building
 MBL Street
 Woods Hole, Massachusetts 02543
 (617) 548-3705 ext. 503
 B-12, Benthic ecology
 --Systematics and ecology of benthic invertebrates,
 especially of Isopoda
- * 385 Millsaps, Harold S. Jr. BS
 Faculty Research Assistant
 Department of Special Studies
 Chesapeake Biological Laboratory
 Box 38
 Solomons, Maryland 20688
 (301) 326-4281 ext.52
 B-8, B-9, E-3
 --Field sampling, sorting, and identification of
 zooplankton, fish eggs and fish larvae to provide
 a framework for the study of the effects of
 thermal pollution in the region of a proposed
 nuclear power plant location
- * 386 Moncure, Richard William BS
 Computer Systems Analyst
 Department of Oceanography
 Virginia Institute of Marine Science
 P.O. Box 387
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext.93
 C-9, E-2, G-1
 --Methods of data analysis, information storage and
 retrieval, especially for physical and chemical
 water quality data

- *387 Monney, Neil Thomas PhD
 Head of Ocean Engineering
 Naval Systems Engineering Department
 U.S. Naval Academy
 Annapolis, Maryland 21402
 (301) 267-3873
 E-2, F-4, G-6
 --Engineering properties of marine sediments
 --Aquaculture, marine fouling, and ecological impact
 of ocean structures
- *388 Moore, Charles James MS
 Biologist
 Department of Limnology
 Philadelphia Academy of Natural Sciences
 19th Street and the Parkway
 Philadelphia, Pennsylvania 19103
 (301) 274-3194 ext.4
 B-5, B-18, E-3
 --Fisheries biology, with emphasis on the effects
 of power plants (heated effluents) on the occurrence,
 seasonality, feeding and food habits, and
 movements of fish within the estuary
- 389 Moore, Johnes K. PhD
 Associate Professor
 Department of Biology
 Salem State College
 Salem, Massachusetts 01970
 (617) 745-0556
 B-8, B-12, B-17, G-6
 --Larval ecology
 --Benthic-water relationships
- * 390 Morales-Alamo, Reinaldo BS
 Research Assistant
 Department of Applied Marine Biology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2112
 B-1, B-8, B-12
 --Ecology of marine invertebrates, especially of the
 Scyphozoa
- * 391 Morgan, Raymond Paul II PhD
 Research Associate
 Fisheries
 Natural Resources Institute
 Chesapeake Biological Laboratory
 Solomons, Maryland 20688
 (301) 326-4281

B-8, B-16, C-2

--Fisheries biology; including biochemical systematics, effects of pollutants on enzyme systems, and the environmental requirements of eggs and larvae, especially of anadromous fishes

*392 Morrow, James W. BS

Project Manager
Central Atlantic Region
Jack McCormick and Associates
860 Waterloo Road
Devon, Pennsylvania 19333
(215) 687-1295

B-6, B-8, B-19, Energy flow in marsh systems

--Maryland wetland mapping program

--Marsh succession, particularly succession of Phragmites australis

--Energy flow in marsh ecosystems and across marsh-upland interface

393 Morse, Douglass Hathaway PhD

Associate Professor
Zoology Department
University of Maryland
College Park, Maryland 20742
(301) 454-5410

B-5, B-8, B-18

--Fisheries biology; including interactions of Fundulus heteroclitus, F. majalis and F. diaphanus, especially in the effects of these species in modifying the niche dimensions of one another

394 Morse, M. Patricia PhD

Associate Professor
Biology Department
Northeastern University
Huntington Ave.
Boston, Massachusetts
(301) 454-5410

B-1, B-2, B-12

--Systematics and life-histories for nudibranch mollusks

395 Morton, Eugene Siller PhD

Chesapeake Bay Center for Environmental Studies
Smithsonian Institution
Route 4 Box 622
Edgewater, Maryland 21037
(301) 798-4424

B-3, B-12, B-14

--Brackish water Odonata studies

- *396 Motta, Jerome J. PhD
 Assistant Professor
 Botany Department
 University of Maryland
 College Park, Maryland 20742
 (301) 454-3816
 B-6, B-8, B-13
 --Inventory of extant species of fungi in the Chesapeake Bay and its tributaries
 --Correlative study of salinity and temperature and the occurrence of ascomycetous wood decay fungi
- * 397 Mountford, Kent PhD
 Research Assistant Curator
 Department of Limnology
 Academy of Natural Sciences of Philadelphia
 Benedict Estuarine Laboratory
 Benedict, Maryland 20612
 (301) 274-3194 ext. 6
 B-8, B-17, B-19
 --Plankton dynamics of temperate estuaries; including the taxonomy, distribution, succession and productivity of phytoplankton and zooplankton communities
 --Experimentation with computer techniques in the multiparameter analysis of primary production data as an indicator of change in the estuary
- * 398 Mountford, Nancy Kirk BA
 Faculty Research Assistant
 Naval Resources Institute
 Chesapeake Biological Laboratory
 University of Maryland
 Hallowing Point Field Station
 Route 1
 Prince Frederick, Maryland 20678
 B-12, E-1, E-3
 --Anchor dredge study of the benthic invertebrates in the vicinity of a nuclear generating station; including collection, sorting, identification, species diversity and biomass studies
- *399 Mulford, Richard A. BS
 Biologist
 Department of Limnology
 Academy of Natural Sciences of Philadelphia
 Benedict Estuarine Laboratory
 Benedict, Maryland 20612
 (301) 274-3194
 B-17
 --Taxonomy and ecology of marine and estuarine plankton

- 400 Mullen, Robert Sean BS
 Research Assistant/Technician
 Benedict Estuarine Laboratory
 Philadelphia Academy of Natural Sciences
 Benedict, Maryland 20612
 (301) 274-3194
 B-2, B-17, B-19
 --Effects of heat discharges on the primary productivity
 of phytoplankton
 --Basic phytoplankton ecology, nutrient requirements,
 growth patterns, species abundance and diversity,
 etc.
 --Methods for measuring productivity in the estuary
 --Investigations of certain phenomena such as dark
 bottle oxygen fixation and photorespiration of
 phytoplankton
- *401 Mumola, Peter Benedict PhD
 Research Scientist
 Environmental and Space Science Division
 NASA
 Langley Research Center
 Hampton, Virginia 23365
 (703) 827-2986
 B-17, E-1, E-3
 --Remote sensing of phytoplankton by dye-laser induced
 fluorescence: phytoplankton fluorescence and
 quantum yield
- * 402 Munson, Thomas Oren PhD
 Manager
 Aquatic Biology
 Westinghouse Ocean Research Laboratory
 P.O. Box 1771
 Annapolis, Maryland 21404
 (301) 765-5773
 B-1, C-2, C-7, C-9, E-1, E-3, H-2
 --Routes of entry and movement of "hard" chlorinated
 pesticides and polychlorinated biphenyls through
 the estuarine system
- 403 Murdoch, Marianne B. --
 Biological Technician
 Ecosystem Energetics
 Atlantic Estuarine Fisheries Center
 Beaufort, North Carolina 28516
 (919) 728-4590 ext. 50
 B-8, B-13, B-19

- * 404 Murphy, George J. BS
 Coordinator
 Natural Resources Department
 FWA
 P.O. Box 126
 Pasadena, Maryland 21122
 (301) 267-5197
 B-2, B-8, D-1, H-2
 --Fisheries biology
 --Hydrography
 --Aquaculture programs
 --Chesapeake Bay resources management
- * 405 Musick, John A. PhD
 Associate Marine Scientist
 Department of Ichthyology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext.65
 B-4, B-5, Community ecology
 --Fisheries biology, including community ecology,
 behavior and systematics
 --Zoogeography
 --Evolution
- 406 Myers, Thomas D. PhD
 Assistant Professor
 College of Marine Studies
 University of Delaware
 Newark, Delaware 19711
 (302) 738-2725
 B-4, B-12, B-17, E-1, E-2, E-3
 --Composition, distribution and vertical migration
 of zooplankton populations
 --Movement of water in estuarine and coastal zones
 in relation to movement of introduced pollutants
 --Environmental impact studies resulting from ocean
 dumping or other waste additions
- * 407 Nauman, Jon William --
 Oceanographer
 Department of the Interior
 U.S. Geological Survey
 218 E Street
 Anchorage, Alaska 99501
 277-5526
 B-1, B-8, B-12, B-19, C-9, E-1, E-3, F-6, G-7
 --Effects of thermal and pulpmill additions on estuarine
 epifauna and water quality

- * 408 Nelson, John D. PhD
 Post-Doctoral Fellow
 Biology Department
 Georgetown University
 31st and O Streets, N.W.
 Washington, D.C. 20007
 (301) 625-4126
 B-8, C-2, E-3
 --Ecology of mercury-resistant bacteria in Chesapeake Bay
 --Bacterial metabolism of mercury compounds
- 409 Neumann, David Alan BS
 Faculty Research Assistant
 Department of Environmental Research
 University of Maryland
 College Park, Maryland 20742
 (301) 535-2121
 B-5, B-16, E-3
 --Fisheries biology; including sublethal effects of
 suspended sediments on various physiological
 parameters in commercially important fish species
- 410 Newell, Irwin Mayer PhD
 Professor of Zoology and Entomology
 Biology Department
 University of California
 Riverside, California 92502
 (417) 787-5910
 B-1, B-4, Acarology
 --Systematics and ecology of Halacaridae
- *411 Newmann, Martin W. MS
 Research Fishery Biologist
 Middle Atlantic Coastal Fisheries Center
 National Marine Fisheries Service
 Oxford Laboratory
 Oxford, Maryland 21654
 (301) 226-5193
 B-5, B-15, E-3
 --Disease in estuarine animals
 --Effects of pollution on fish
- *412 Nichols, Maynard M. PhD
 Associate Professor
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext 75
 D-1, D-8, E-2
 --Estuarine sedimentation and hydrology
 --Foraminiferal ecology

--Wetlands mapping
--Geological oceanography
--Coastal engineering pertaining to harbor development,
erosion and channel dredging

413 Nichols, Paul Ruffner --
Fishery Administrator
Department of Commerce
National Marine Fisheries Service
1801 North Moore Street
Arlington, Virginia 22209
(703) 557-9312

414 Nicholson, William Robert MS
Fishery Biologist
Department of Commerce-NOAA
National Marine Fisheries Service
Beaufort, North Carolina 28516
(919) 428-4595

B-8, B-9, B-18

--Population dynamics of Atlantic and Gulf of Mexico
menhaden

* 415 Norcross, John J. MS
Senior Marine Scientist
Department Head
Department of Data Processing
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111 ext.82

--Data processing and data analysis

--Circulation of waters at the mouth of the Chesapeake
Bay, flux of suspended sediments in the same
area, and circulation of nearshore waters off
the coastline of Virginia

* 416 Nordstrom, Robert Dana --
Director
Fishery Products Division
National Cannery Association
1133 20th Street N.W.
Washington, D.C. 20036
(202) 338-2030 ext 220

A-1, A-3, B-2, B-5, B-8, B-9, B-18, B-19, E-1, E-2,
E-3, G-2, G-4, H-1, H-2, H-3, Heavy metals
monitoring, Petro-chemical pollution

--Seafood processing

- 417 Norris, Robert M. --
 Executive Secretary
 Potomac River Fisheries Commission
 P.O. Box 128
 Colonial Beach, Virginia 22443
 (703) 224-2923
 A-1, H-2, Conservation of fisheries
 --Licensing and regulating fishing gear and fisheries
 in the Potomac River below Washington, D.C.
 --Maintenance and improvement of the seafood resources
 of the Potomac River
- 418 O'Brien, Francis MS
 Biology Department
 Southeastern Massachusetts University
 N. Dartmouth, Massachusetts 02747
 (617) 997-9321 ext. 412
 B-2, B-8, B-12
 --Effects of isopod parasites on the prawn, Palaemonetes
pagio
 --Feeding behavior of echinoderms, especially with
 relation to bivalve mollusks
 --Bivalve propagation and cultivation
- 419 O'Connor, James Vincent MST
 Instructor
 Science Teaching Center and Geology
 University of Maryland
 Room 17 - STC - Education Building
 College Park, Maryland 20742
 (301) 454-2024
 D-1, G-6, H-2
 --Field research on the estuarine environment for
 secondary and elementary earth science teachers
 --Effects of catastrophic natural events in changing
 the estuarine system
 --Translation of science data available for the Bay
 into practical classroom materials that can be
 utilized by both teachers and students
- *420 O'Connor, Joel S. PhD
 Research Ecologist
 Marine Science Research Center
 State University of New York
 Building J
 Stony Brook, New York 11790
 (516) 286-9725
 B-8, B-9, Biometrics
 --Synthesis of information on the ecology of estuaries
 and the coastal zone, especially of fishes and
 benthic invertebrates

- Applications of sampling statistics and computer science to estuarine ecology
- Potential of fishes and benthic invertebrates as protein sources

- * 421 O'Dell C. Jay MS
 Project Leader
 Fish and Wildlife Administration
 Maryland Department of Natural Resources
 State Office Building
 Annapolis, Maryland 21401
 (301) 267-5361
 B-8, B-9, Stream inventory and ecology
 --Fisheries biology, especially of anadromous fishes; including studies of species presence, of spawning areas, and of water quality to ascertain its effects on fish passage and spawning
- * 422 O'Malley, Maria Lisabeth MS
 Aquatic Biologist
 Annapolis Field Office
 Environmental Protection Agency
 Annapolis Science Center
 Annapolis, Maryland 21401
 (301) 268-5038 ext. 23
 B-8, B-12, E-3
 --Study of trophic levels, especially of the benthos and phytoplankton
- * 423 Olmon, Janet Evelyn BS
 Graduate Student
 Department of Physiology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111
 B-1, B-12, C-2
- 424 Oostdam, Bernard Lodewyk PhD
 Professor
 Earth and Space Science
 Millersville State College
 Millersville, Pennsylvania 17551
 (717) 872-5411 ext. 304
 D-1, D-8, E-2
 --Sediment transport
 --Estuarine circulation
 --Marine waste disposal

- 425 Orear, Charles W. PhD
 Assistant Professor
 Biology Department
 East Carolina University
 P.O. Box 2577
 Greenville, North Carolina 27834
 (919) 758-6718
 B-9, B-19, C-9
 --Fisheries biology; including nutrition, especially
 of the striped bass, and pollution physiology
 --Distribution and types of dissolved organics in
 eastern North Carolina
- * 426 Orris, Patricia Kay MS
 Faculty Research Assistant
 Botany Department
 University of Maryland
 College Park, Maryland 20742
 (301) 454-3821
 B-6, B-8, B-16
 --Benthic macro-algae; including taxonomy, inventory,
 ecology, physiology and culture methods
- * 427 Orth, Robert Joseph MS
 Graduate Student
 Zoology Department
 University of Maryland
 College Park, Maryland 20742
 (301) 454-5410
 B-1, B-4, B-8, B-12, B-18, C-8
 --Effects of eelgrass (Zostera marina) on the community
 structure of benthic fauna
 --Benthic ecology
 --Wetlands ecology
- * 428 Ott, Franklyn Dewayne PhD
 Assistant Professor, Marine Scientist
 Department of Microbiology and Pathology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext. 48
 A-4, B-2, B-6, B-13, B-19, E-3, G-6, Phycology
 --Biology of marine algae; including aspects of floral
 composition, systematics, life cycles, periodicity,
 ecology, and the effect of pollution on these
 factors
 --Phytoplankton biology; including culturing to provide
 rearing of invertebrate larvae and the remote
 sensing of blooms to establish floral composition,
 productivity areas, and the relationships of
 invertebrates and vertebrates which feed on these
 phytoplankton

- * 429 Otto, Sara Virginia BA
 Laboratory Scientist II
 NOAA
 National Marine Fisheries Service
 Biological Laboratory
 Oxford, Maryland 21654
 (301) 226-5193
 B-2, B-12, Molluscan shellfish pathology
 --Molluscan biology; including distribution of
 parasites affecting oysters and other shellfish,
 experimental raft culture of oysters to compare
 off-bottom culture with on-bottom culture, and
 comparison of mortality and infection rates of a
 stock of oysters from a diseases-enzootic area
 and in a stock from a non-enzootic area
- * 430 Outten, William Alonza MS
 Biologist III
 Fisheries Management
 Maryland Fish and Wildlife Administration
 State Office Building
 Annapolis, Maryland 21012
 (301) 267-5151
 B-9, B-12, Blue crab management
 --Shellfish management, especially of blue crabs
- 431 Overstreet, Robin Miles PhD
 Department Head, Parasitologist
 Department of Parasitology
 Gulf Coast Research Laboratory
 P.O. Box AG
 Ocean Springs, Mississippi 39564
 (601) 875-2244
 B-8, B-9, B-15
 --Parasitology; including taxonomy of helminths and
 protozoans; diseases and their control in mariculture;
 ecology, host-parasite relationships and life
 histories of the parasites of fishes and invertebrates
- 432 Owens, Olga Von Hartz PhD Cand.
 Graduate Student
 Botany Department
 University of Maryland
 College Park, Maryland 20742
 B-6, B-13, C-2, Cell physiology
 --Kinetics of ATP formation in algae

433 Pacheco, Anthony L. MA
Fishery Biologist
Middle Atlantic Coastal Fisheries Center
National Marine Fisheries Service
Highlands, New Jersey 07732
(201) 872-0200 ext. 31

B-8, B-9, B-18

--Fisheries biology; including the distribution of juvenile fishes in waters of the New York Bright and contiguous waters, age and growth studies of spot, gray trout, and croakers and abundance estimates of juvenile menhaden

* 434 Palmer, Harold Dean PhD
(Manager) Aquatic Physical Science
Ocean Research Laboratory
Westinghouse Electric Corporation
P.O. Box 1771
Annapolis, Maryland 21404
(301) 765-5772

D-1, D-8, E-2

--Geological processes; including erosion, transportation and deposition of sediments in estuarine environments

* 435 Paparella, Michael W. MS
Extension Specialist
Natural Resources Institute
University of Maryland
Box 351
Crisfield, Maryland 21817
(301) 968-1655

A-3, G-6, H-2, Extension service to seafood industry
--Seafood processing including assistance provided to processors in the area of food science and technology, mechanization of oyster-shucking and crab-picking, studies on individual quick freezing of seafoods, and product and process development, especially in the area of by-product and unused species utilization

436 Parker, R.O. Jr. MS
Fishery Biologist
National Marine Fisheries Service
Atlantic Estuarine Fisheries Center
Pivers Island
Beaufort, North Carolina 28516
(919) 728-4595

B-9, B-18, Dynamics of artificial reefs

--Fisheries biology; including menhaden tagging studies
--Artificial reef studies

- 437 Patten, Bernard C. PhD
 Professor
 Zoology Department
 University of Georgia
 Athens, Georgia 30610
 (404) 542-8134
 B-17, B-19, G-5
 --Total ecosystem modeling and systems analysis
- *438 Pauley, Gilbert B. PhD
 Fishery Research Biologist
 NOAA
 National Marine Fisheries Service
 Biological Laboratory
 Oxford, Maryland 21654
 (301) 226-5193
 B-9, B-12, B-13, B-15, Pathology and immunology of
 marine animals
 --Utilization of various techniques of immunology,
 immunochemistry, and microbiology to study
 various immunological responses of marine fish
 and shellfish from Chesapeake Bay
- 439 Pearce, John Bodell PhD
 Officer-in-Charge
 Sandy Hook Laboratory
 NOAA
 National Marine Fisheries Service
 Highlands, New Jersey 07732
 (201) 872-0200
 B-1, B-12, E-3
 --Effects of ocean disposal of dredging spoils and
 sewage sludge
 --Ecology of symbiotic brachyuran crustaceans
 --Ecology of epibenthic communities
- *440 Pearson, James Gareth MA
 1st Lt.
 Biomedical Laboratory
 U.S. Army
 Edgewood Arsenal
 Edgewood Arsenal, Maryland 21010
 (301) 671-2586
 B-8, B-9, E-3
 --Fisheries biology; including community structure of
 nearshore fish populations in an estuarine environment
 and fish toxicological studies dealing with
 establishing "safe" environmental levels of
 testing of chemical agents at Edgewood Arsenal
 --Aquatic monitoring of industrial operations at
 Edgewood Arsenal

- *441 Peddicord, Richard Knox PhD Cand.
 Graduate Research Assistant
 Department of Ecology-Pollution
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111
 B-8, B-12, E-3
 --Ecology of invertebrates; including its relationship
 to pollution, especially for Rangia cuneata
- 442 Pequegnat, Linda H. PhD
 Research Scientist
 Oceanography
 Texas A and M University
 College Station, Texas 77843
 (713) 846-2192
 B-4, B-12, E-2, Marine Crustacea
 --Systematics and zoogeography of deep-sea decapod
 crustaceans (caridean shrimps and galatheid
 crabs in particular) and of bathypelagic
 mysidacean shrimps
 --Coral reef decapods in the Gulf of Mexico
 --Biofouling studies
 --World-wide distributions of bathypelagic mysidaceans
- * 443 Perry, Matthew Calbraith MS
 Wildlife Biologist
 Patuxent Wildlife Research Center
 Bureau of Sport Fisheries and Wildlife
 Laurel, Maryland 20810
 (301) 776-4880 ext. 286
 B-2, B-8, Wildlife biology
 --Effects of environmental pollution on waterfowl,
 especially the black duck and the canvasback
 duck, and their habitats; including studies of
 eggshell thinning due to pesticide treated food,
 of local and long-range movements in relation
 to area food supplies and of pollutant-treated
 invertebrates that serve as food for canvasbacks
- 444 Peters, David Stewart PhD
 Fishery Biologist
 National Marine Fisheries Service
 Beaufort, North Carolina 28516
 (919) 728-4595
 B-5, B-16, E-3
 --Measurements of the effects of environmental changes
 on various processes of fish metabolism including
 feeding and growth rates, food conversion efficiency,
 and nitrogen metabolism

- * 445 Pfitzenmeyer, Hayes T. MS
 Research Associate
 Natural Resources Institute
 University of Maryland
 P.O. Box 38
 Solomons, Maryland 20688
 (301) 326-4281 ext.47
 B-4, B-8, B-12
 --Benthic invertebrate ecology
 --Biology and population studies of Mya arenaria
- * 446 Pheiffer, Thomas H. MED
 Interagency Planning Coordinator
 Annapolis Field Office
 Environmental Protection Agency
 Annapolis Science Center
 Annapolis, Maryland 21401
 (301) 268-5038 ext.8
 E-1, E-3, G-1, H-2, H-3
 --Development of a management entity for the Chesapeake Bay System in order to utilize the full potential of the hydro-dynamic mathematic model of the Bay now being tested at the Annapolis Field Office
- 447 Phillips, James W. MS
 Assistant Professor of Biology
 Biology Department
 Westfield State College
 Western Avenue
 Westfield, Massachusetts 01085
 (413) 568-3311 ext.76
 B-5, B-9, Fish embryology
 --Effects of an atomic reactor on fish egg development
- 448 Phillips, Philip Julian PhD
 Biologist-Ecologist
 Environmental Resources Branch
 Corps of Engineers
 North Atlantic Division
 90 Church Street
 New York, New York 10007
 (212) 264-6912
 B-8, B-12, B-17
 --Cnidarian systematics, zoogeography and ecology, especially of Scyphozoa, hydromedusae, and Siphonophora
 --Benthic community studies, particularly with respect to burrowing Crustacea

- 449 Picciolo, Anthony Ronald PhD
 Chief Data Acquisition Branch
 Operations Division
 National Oceanographic Data Center
 Rockville, Maryland
 (202) 426-9070
 B-1, E-2, G-1
 --National data management of oceans and estuaries
- * 450 Pierce, Jack Warren --
 Geologist
 Division of Sedimentology
 Smithsonian Institution
 Washington, D.C. 20560
 (202) 381-5862
 D-1, D-8, E-2
 --Suspended particulate matter, primarily sedimentary
 particles, and their interaction with organic
 and inorganic material
 --Flux of sediment
- * 451 Pierce, Sidney K. PhD
 Assistant Professor
 Zoology Department
 University of Maryland
 College Park, Maryland 20742
 (301) 454-5197
 B-1, B-8, B-12, B-16
 --Cellular mechanisms underlying the physiological
 interactions of some Chesapeake Bay invertebrates
 with their environment; including osmotic and ionic
 regulation and nitrogen excretion in Modiolus
demissus, salinity studies of Diadumone, and
 electrophysiology of the nervous system development
 in the polyp of Chrysaora quinquecirrha
 --Suitability of Modiolus demissus for studying the
 physiological basis of thermal tolerances
- * 452 Pinkham, Carlos Frank Amory PhD
 Cpt. U.S. Army
 Ecology Program
 Molecular Biology Branch
 Biomedical Research Laboratory
 Edgewood, Arsenal, Maryland 21010
 (301) 671-2586
 B-18, B-20, E-1
 --Terrestrial vertebrate research dealing with population
 dynamics of marsh and lowland vertebrates
 --Environmental monitoring of Edgewood Arsenal testing
 activities

- * 453 Pluhowski, Edward John PhD
 Research Hydrologist
 Water Resources Division
 U.S. Geological Survey
 4903 Dowlais Court
 Rockville, Maryland 20853
 (212) 343-2640
 D-8, F-6, Hydrology
 --Determining runoff in the Rhode River watershed
 --Sediment production
 --Temperature patterns in streams
- 454 Poluhowich, John J. --
 Associate Professor
 Biology Department
 University of Bridgeport
 Dana Hall
 Bridgeport, Connecticut
 (203) 384-0711 ext. 464
 B-5, B-16, C-2
 --Physiology of the American eel, Anguilla rostrata,
 with emphasis on characterizing certain blood
 parameters as these animals migrate in the estuary
- 455 Porter, Hugh J. MS
 Assistant Professor
 Institute of Marine Sciences
 University of North Carolina
 P.O. Drawer 809
 Morehead City, North Carolina 28557
 (919) 726-6841 ext. 7
 B-8, B-9, Molluscan taxonomy
 --Taxonomic, ecological survey, aquaculture, and
 reproductive studies of Mollusca, especially
 of two quahog species, inhabiting the estuarine
 and marine waters of North Carolina
- * 456 Powell, Edwin Huff --
 Manager
 Windmill Point Oyster Co.
 Urbana, Virginia 23175
 (703) 758-2357
 A-1, B-2, H-1
 --Conception, design, construction and operation of
 an economically feasible oyster hatchery

- * 457 Power, Garrett LL M
 Professor of Law
 School of Law
 University of Maryland
 500 West Baltimore Street
 Baltimore, Maryland 21201
 (301) 528-7661
 G-2, G-4, H-1, H-2, H-3, Environmental law
 --Legal problems of Chesapeake Bay management
 --Legal and economic problems of wetland management
- 458 Price, Kent Sparks PhD
 Associate Professor-Assistant Dean
 College of Marine Studies
 University of Delaware
 P.O. Box 286
 Lewes, Delaware 19958
 (302) 645-6676
 B-1, B-2, B-5
 --Ecology of estuaries
 --Water regulation and reproduction in elasmobranchs
 --Temperature requirements in gonadal development in
 the American oyster
 --Mariculture
 --Estuarine fisheries biology
- 459 Price, Thomas John MS
 Fishery Biologist Research
 Department of Commerce
 National Marine Fisheries Service
 Atlantic Estuarine Fisheries Center
 Beaufort, North Carolina 28516
 (919) 728-4595 ext.46
 B-1, B-8, B-12
 --Studies on species composition, standing crop, and
 energy flow of benthic macroinfauna in estuaries
 near Beaufort, North Carolina
 --Radiation biology; including studies of the uptake,
 assimilation and loss of various radionuclides
 by marine organisms and tracer studies using
 radionuclides to determine the feeding selectivity
 of marine invertebrates
- 460 Pristas, Paul Joseph BS
 Fishery Biologist
 Department of Commerce
 NOAA
 National Marine Fisheries Service
 P.O. Box 4218
 Panama City, Florida 32401
 (904) 234-6541
 B-1, B-8, B-9

--Occurrence of coastal benthic fish and crustaceans
in St. Andrews Bay, Florida

461 Psuty, Norbert Phillip PhD
Assistant Director
Marine Sciences Center
Rutgers University
New Brunswick, New Jersey 08903
(201) 932-3081

D-5, E-1, Remote sensing

--Measuring and mapping the standing crop productivity
in salt marshes by remote sensing techniques; use
of color infrared photography for species
identification

--Sediment migration and beach response at Sandy Hook,
New Jersey

* 462 Raney, Edward C. --
Owner and Director
Ichthyological Associates
301 Forest Drive
Ithaca, New York 14850
(607) 272-2455

B-1, B-5, B-8, B-9, B-20

--Fisheries biology; including systematics, ecology
and behavior, especially of the C and D Canal,
the Susquehanna Flats area, and the lower
Susquehanna River

* 463 Rasin, Vaclav James Jr. BS
Faculty Research Assistant
Fisheries
University of Maryland
P.O. Box 38
Solomons, Maryland 20688
(301) 326-4281 ext. 72

B-5, B-8, B-9

--Determination of the effects on fish eggs and larvae
of the widening and deepening of the Chesapeake
and Delaware Canal

* 464 Rawls, Charles Kelso Jr. MS
Research Associate
Natural Resources Institute
Chesapeake Biological Laboratory
University of Maryland
Box 38
Solomons, Maryland 20688
(301) 326-4281 ext. 29
B-8, B-20, E-3, Wetlands ecology and characterization,
Wildlife management
--Investigation of Eurasian watermilfoil and other

noxious aquatic vegetative species; including studies of their control, distribution, toxicology, concentrations of herbicide residues, etc.
 --Distribution and changes in abundance of aquatic and marsh vegetation in the Chesapeake Bay
 --Pesticide residues in Bay waters and biota
 --Classification, indexing, characterization, ecology and vertebrate production of wetlands
 --Sublethal effects of pesticides on Bay fauna and flora

* 465 Reber, Michael James BS
 Faculty Research Assistant
 Environmental Research
 University of Maryland
 Natural Resources Institute
 P.O. Box 131
 Solomons, Maryland 20688
 (301) 326-4281

B-1, B-8, B-12
 --Control of the sea nettle in Chesapeake Bay
 --Biological photography of marine organisms

466 Recksiek, Conrad W. MA
 Graduate Student
 Zoology Department
 Murray Hall
 University of Maine
 Orono, Maine 04473
 (207) 581-7941

B-5, B-8, B-9
 --Fisheries biology; including the distribution of pelagic fishes in the Sheepscot River Estuary, Wiscasset, Maine, and of larval fishes in Narragansett Bay, Rhode Island

*467 Rees, Colin Pritchard PhD
 Assistant Professor
 Zoology Department
 University of Maryland
 College Park, Maryland 20742
 (301) 454-5410

B-1, B-8, B-12
 --Amphipoda; including the dynamics and interrelationships of mixed populations of selected species in the Bay, salinity preferences of selected species, and the distribution and ecology of Gammaridae and associated organisms in the Patuxent River System

- *468 Reintjes, John William MS
 Supervisory Fishery Biologist Research
 Department of Commerce
 NOAA
 National Marine Fisheries Service
 Beaufort, North Carolina 28516
 (919) 728-4595
 B-5, B-9, B-18
 --Early life histories and population dynamics of
 menhaden and other clupeid fishes
- 469 Rhodes, Edwin W. BS
 Fishery Biologist (Research)
 NOAA
 National Marine Fisheries Service
 Rogers Ave.
 Milford, Connecticut 06460
 (203) 878-2459 ext.26
 B-2, B-9, B-12
 --Development of methods for rearing invertebrate
 larvae, particularly bivalve mollusks
- *470 Rhodes, William R. MS
 Assistant Marine Scientist
 Department of Ichthyology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext.64
 B-1, B-8, B-16
 --Determination of the biological structure of estuarine
 systems, the relationship of individuals to the
 biological and physical environment and applications
 of this knowledge in fisheries management
- 471 Rice, Theodore R. PhD
 Director
 U.S. Department of Commerce
 Atlantic Estuarine Fisheries Center
 National Marine Fisheries Service
 Beaufort, North Carolina 28516
 B-8, B-9, Radioecology
 --Estuarine studies; especially on fish; with special
 emphasis on radioecology, elemental cycling,
 primary productivity, and population dynamics
 of menhaden, game fish and artificial reefs

- 472 Rich, Peter H. PhD
 Research Associate
 Biology Department
 Brookhaven National Laboratory
 Upton, New York 11973
 B-6, B-8, B-19
 --Benthic carbon metabolism, primary production of
 aquatic macrophytes and roles of dissolved
 organic carbon in a tidal salt marsh in New York
- * 473 Richards, Clarence Edward MS
 Assistant Marine Biologist
 Department of Ichthyology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext. 29
 B-9, B-18, G-5
 --Fisheries biology; including age, growth, distribution,
 and population studies especially of food and
 game fishes
- 474 Riser, Nathan Wendell PhD
 Director and Biology Professor
 Marine Science Institute
 Northeastern University
 Nahant, Massachusetts 01908
 (617) 581-1170
 B-4, B-7, B-12
 --Bionomics of marine Turbellaria and Nemertinea
- * 475 Ritchie, Douglas Edward Jr. AB
 Faculty Research Assistant
 Fisheries Department
 Natural Resources Institute
 University of Maryland
 P.O. Box 38
 Solomons, Maryland 20688
 (301) 326-4281 ext. 20
 A-1, B-5, B-9, Ecology of fishes
 --Adult fisheries biology in Chesapeake Bay; including
 tagging studies
- * 476 Rivkin, Samuel BS
 Department of Microbiology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia
 (703) 642-2111
 B-2, B-8, B-12

--Culturing invertebrates, especially the oyster
Crassostrea virginica and copepods
 --Reproductive cycle studies

*477 Robbins, Chandler S. MS
 Chief, Migratory Nongame Bird Studies
 Wildlife Research Division
 Department of the Interior
 Migratory Bird Populations Station
 Laurel, Maryland 20810
 (301) 776-4880 ext. 281
 B-14, B-18, E-1

478 Roberts, Henry Barndt HS
 Senior Museum Specialist
 Division of Crustacea
 Smithsonian Institution
 Washington, D.C. 20560
 (202) 381-5781
 B-12, Taxonomy, Invertebrate paleontology
 --Taxonomy of brachyuran crabs

479 Roberts John L. PhD
 Professor
 Zoology Department
 University of Massachusetts
 Amherst, Massachusetts 01002
 (413) 545-0157
 B-5, B-12, B-16
 --Comparative physiology and physiological ecology
 --Temperature adaptations of invertebrates and fishes
 with reference to the influence of photoperiod
 --Fisheries biology; including neural control of
 ventilation in fishes and physiology of fish
 ventilation and circulation with reference to
 habitat type, activity and thermal stress

480 Roberts, Morris H. Jr. PhD
 Program Director, Invertebrate Studies
 Invertebrate Division
 Aquatic Sciences Inc.
 2624 N.W. 2nd Avenue
 Boca Raton, Florida 33432
 (305) 391-0091
 B-2, B-12, E-3
 --Larval development and culture of Callinectes sapidus,
 and other decapods found in Chesapeake Bay
 --Bioassay of pesticides with decapod larvae

481 Roper, Clyde F.E. PhD
Curator
Department of Invertebrate Zoology
Division of Mollusks
NMNH
Smithsonian Institution
Washington, D.C. 20560
(202) 381-5605

B-4, B-12, E-2

--Cephalopoda; including determinations of occurrence,
abundance, seasonality, age group composition,
spawning localities, etc.

482 Ropes, John Warren BA
Fishery Biologist Research
Department of Commerce
NOAA
National Marine Fisheries Service
Oxford, Maryland 21654
(301) 226-5193

B-1, B-9, B-18

--Biology and population dynamics of the surf clam,
Spisula solidissima

*483 Rose, Curt Dean PhD
Research Associate Professor
Department of Fisheries
Chesapeake Biological Laboratory
University of Maryland
Box 38
Solomons, Maryland 20688
(301) 326-4281 ext. 50

B-2, B-8, B-9

--Oyster biology

--Shellfish aquaculture

--Effects of heated effluents and oil pollution on
shellfish

*484 Rosenfield, Aaron PhD
Director, Pathology Investigations
Department of Commerce
National Marine Fisheries Service
Oxford, Maryland 21654
(301) 226-5193

B-9, B-13, Pathobiology

--Comparative studies on the pathological responses
of marine organisms to infectious and noninfectious
disease agents in natural or man-altered estuarine
and coastal environments and in mariculture
operations in order to prevent, alleviate, or
control mortalities of living natural resources

and to increase the efficiency of management
and utilization of fishery resources, including
disease diagnoses, histopathology, and micropathogen
identification, characterization, and taxonomy
--Biochemical and morphological manifestations of
diseases in host organisms and in cell systems
--Host defense mechanisms and microbial pathogenicity

485 Ruber, Ernest PhD
Associate Professor
Biology Department
Northeastern University
Boston, Massachusetts 02115
(617) 437-2260

B-8, B-17, E-3
--Ecology of salt marshes, especially of copepods,
including interactions with competitors in food
chains
--Effects of pesticides on algae and microcrustaceans

486 Russell, Clifford Springer PhD
Research Associate
Resources for the Future, Inc.
1755 Massachusetts Ave. N.W.
Washington, D.C. 20036
(202) 462-4400 ext. 63

E-3, H-1, Optimization modeling
--Regional modeling for residuals (Pollution management)

487 Russell, Henry Drummond PhD
Mollusk
Museum of Comparative Zoology
2001 Harvard
Cambridge, Massachusetts 02138

B-1, B-8, B-12
--Ecology and life history studies of the Nudibranchia

*488 Rutledge, Carleton Jr. MS
Fellow Engineer
Oceanic Division
Westinghouse Electric Corporation
P.O. Box 1488
Annapolis, Maryland 21404
(301) 765-5739

A-2, C-4, C-7, C-9, D-8, D-9, E-1, E-2, F-7, G-1
G-7, G-8, H-2, H-3
--Oceanographic and meteorological monitoring systems
--Bottom sediments and topography
--Bottom mapping acoustic systems
--Acoustic aids to navigation
--Navigation and positioning systems
--Underwater T.V. photography
--Submersible vehicles and diver life support
--Sonar studies

- * 489 Ruzecki, Evon Paul MS
Associate Marine Scientist
Department of Physical Oceanography and Hydraulics
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111 ext. 43
E-2, F-3, G-6
--Estuarine circulation
--Material flux measurement at the mouth of the
Chesapeake Bay
- 490 Ryan, David Arnold --
Chairman
Science Department
The Pingree School
Highland Street
S. Hamilton, Massachusetts 01982
(617) 468-4415
G-6
- 491 Ryan, Edward P. PhD
Associate Professor
Department of Biology
East Carolina University
Greenville, North Carolina 27834
(919) 758-6725
B-1, B-9, B-12
--Biology of crustaceans, especially as related to
reproduction
- (492) Ryther, John Hood PhD
Senior Scientist
Biology Department
Woods Hole Oceanographic Institution
Woods Hole, Massachusetts 02543
(617) 548-1400 ext. 322
B-2, B-8, B-17, B-19, C-1, C-9, E-1, E-2, E-3
--Development of a waste recycling system in which
unicellular algae are grown on treated sewage
effluent and then fed to bivalve molluscs under
controlled conditions
--Uptake of heavy metals, chlorinated hydrocarbons,
and polychlorinated biphenyls by bivalve molluscs
and other estuarine animals
--Effects of thermal discharges on estuarine organisms
--Marine aquaculture in general

- 493 Salla, Saul B. PhD
 Director
 Marine Experiment Station
 University of Rhode Island
 Graduate School of Oceanography
 Kingston, Rhode Island 02881
 (401) 792-6239
 B-18, E-3, G-5
 --Estuarine fish population dynamics
 --Dredge spoil disposal evaluation
- 494 Saloman, Carl Herman BS
 Fishery Biologist (Research)
 Department of Commerce
 NOAA
 NMFS Biological Laboratory
 75 33rd Avenue
 St. Petersburg Beach, Florida 33706
 (813) 360-7096
 B-1, B-8, B-12
 --Crustacean taxonomy
 --Benthic population densities in relation to sediments
 and water quality
 --Water quality monitoring
- 495 Salvini-Plawen, Luitfried V. PhD
 Dozent Assistant
 Zoological Institute
 University Vienna
 Dr. Karl Lueger-Ring 1
 Vienna, Austria
 B-12
 --Biology of the aplacophorous molluscs; including
 ecology, distribution, and anatomy
- *496 Sampugna, Joseph PhD
 Assistant Professor
 Chemistry Department
 University of Maryland
 College Park, Maryland 20742
 (301) 454-2310
 B-8, B-12, C-2
 --Biochemistry of estuarine inhabitants; including
 the lipid biochemistry of the Virginia oyster
- 497 Sandifer, Paul Alan PhD Cand.
 Assistant Marine Scientist
 South Carolina Marine Research Laboratory
 P.O. Box 12559
 Charleston, South Carolina 29412
 (803) 795-2081

B-2, B-12, B-17
--Biology and development of estuarine Crustacea,
especially of decapods
--Taxonomy and biology of estuarine zooplankton
--Aquaculture

* 498 Sapp, Ranford Michael BSEE
Senior Engineer
Oceanic Division
Westinghouse Electric Corporation
Box 1488
Annapolis, Maryland 21404
(301) 765-5789

A-2, E-1, E-2, F-7
--Remote (acoustical and optical) sensing of aquatic
resources, characteristics and conditions
--Engineering aspects of environmental surveys and
monitoring systems, and programs

499 Sawyer, Philip John PhD
Professor
Zoology Department
University of New Hampshire
Spaulding Life Science Building
Durham, New Hampshire 03824
(603) 862-2106

B-5, B-8, B-17
--Ichthyoplankton studies

*500 Sawyer, Thomas Knowlton MS
Staff Specialist
Department of Commerce
Department of the Interior Building
1800 C Street N.W.
Washington, D.C.
(202) 343-6643

B-1, B-8, B-9, B-12, B-15, E-3
--Marine Protozoa
--Marine diseases

501 Schick, Daniel Frederick MS
Marine Resources Scientist
Research Division
Maine Sea and Shore Fisheries
McKown Point
West Boothbay Harbor, Maine 04575
(207) 633-5572

B-2, B-12, H-2
--Biology of the bloodworm with reference to its
adaptability to the concentrations and controls
of aquaculture and to environmental stresses

- 502 Schmitt, Waldo Lasalle PhD
 Research Associate (Retired)
 Division of Crustacea
 Smithsonian Institution
 Washington, D.C. 20560
 (202) 381-5313
 B-1, B-12, Taxonomy of Crustacea
 --American Pinnotherid crabs; some are parasitic
 and/or commensals of oysters and other shellfish
- 503 Schopf, Thomas Joseph Morton PhD
 Assistant Professor
 Geophysical Sciences
 University of Chicago
 5734 Ellis
 Chicago, Illinois 60637
 (312) 753-8163
 B-1, B-12, E-2
 --Ecology and distribution of Bryozoa
- *504 Schott, C. Donald MS
 Biologist
 Plant Ecology
 Experimental Medical Branch
 Biomedical Laboratory
 Edgewood Arsenal, Maryland 21010
 (301) 671-2247
 B-6, C-6, E-1, E-3
 --Plant survey of Edgewood Arsenal, Maryland
 --Assessment of pesticide toxicity to plants
 --Ecological damage assessment in vitro of manufacturing
 wastes and by-products
- *505 Schultz, Leonard B. PhD
 Curator of Fishes
 Smithsonian Institution
 Research Associate
 Chesapeake Biological Laboratory
 Solomons, Maryland 20688
 B-1, B-5
 --Biology of jellyfish
 --Fisheries biology
- *506 Schwartz, Frank Joseph PhD
 Professor
 Institute of Marine Sciences
 University of North Carolina
 Box 809
 Morehead City, North Carolina 28557
 (919) 726-6841

B-5, B-9, B-20, Ichthyology
 --Fisheries biology; including systematics, zoogeography,
 and ecology
 --Sea turtles
 --Elasmobranchs

*507 Scott, Frederic Robert MA
 Proprietor
 Scott Associates
 513 Mutual Building
 Richmond, Virginia 23219
 (703) 643-4094

B-14, G-2, H-3
 --Avian populations; including population fluctuations
 and reproductive rates of the Bald Eagle and of
 breeding populations of colonial herons and
 related species

*508 Scott, Roy Francis BS
 Biologist II
 Maryland Department of Natural Resources
 Fish and Wildlife Administration
 State Office Building
 Annapolis, Maryland 21401

A-1, B-9, H-2
 --Fisheries biology, especially of the striped bass;
 including tagging studies, determination of
 levels of mercury and pesticides in the tissues,
 determination of the presence of Goezia, and
 study of the relationship of egg viability to
 size of the female

*509 Scott, Russell Cecil MSE
 Proprietor
 R.C. Scott Associates
 513 Mutual Building
 Richmond, Virginia 23219
 (703) 643-4094

E-1, E-3, G-2, G-6

510 Scotton, Lewis Nailor MS
 Research Assistant
 Biology Division
 School of Marine Science
 University of Miami
 10 Rickenbacker Causeway
 Miami, Florida 33149
 (305) 350-7334

B-5, B-8
 --Fisheries biology; including the ecology and distribution
 of postlarval fishes of Southern Biscayne Bay,

Florida; larval systematics and ecology; and the effects of environmental stresses, including thermal effluents, on the occurrence of fish larvae

--Conservation of the environment

511 Seamans, Richard Goss, Jr. BS
Chief, Inland and Marine Fisheries
New Hampshire Fish and Game Department
34 Bridge Street
Concord, New Hampshire 03301
(603) 271-2501

B-1, B-9, H-2

--Northern lobster stock studies, fin-fish inventory, and introduction and restoration of anadromous fish

* 512 Seliger, Howard Harold PhD
Professor
Biology Department
Johns Hopkins University
Baltimore, Maryland 21218
(301) 366-3300 ext. 203

B-17, E-1, G-5

--Plankton ecology

--Phytoplankton primary production

--Effects of light on photosynthesis and phototaxis

--Measurements of spectral distributions of underwater light

* 513 Shaw, William Neil BS
Fishery Research Biologist
Department of Commerce
National Marine Fisheries Service
Oxford, Maryland 21654
(301) 226-5193

A-1, B-2, B-12

--Shellfish aquaculture and extension in Chesapeake Bay

* 514 Shearer, Carol Ann PhD
Faculty Research Assistant
Botany Department
University of Maryland
H.J. Patterson Hall
College Park, Maryland 20742
(301) 454-3818

B-8, B-13, E-3

--Taxonomy, ecology, and physiology of estuarine fungi; including investigation of the role of fungi in the wetlands ecosystem and the effects of the discharge of heated water on fungal distribution

- * 515 Shetton, Lewis Roller BA
 Graduate Student
 Department of Crustaceology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111
 B-1, B-9, B-12
 --Biology of the rock crab, Cancer irroratus, in
 Virginia coastal waters
- 516 Shevenell, Thomas Cortland --
 Research Associate
 Jackson Estuarine Laboratory and Earth Science
 Department
 University of New Hampshire
 Durham, New Hampshire 03824
 (603) 862-1719
 D-1, D-8, Suspended sediment
 --Transport of suspended sediments; including the
 relationships between suspended sediment
 distribution and the physical erosion and transport
 mechanisms such as current velocity, wind wave
 activity and net estuarine circulation on annual,
 daily and tidal cycle scales
- 517 Short, Robert B. PhD
 Professor
 Biological Science Department
 Florida State University
 Tallahassee, Florida 32306
 (305) 599-3122
 B-15
 --Structure and biology of trematodes
 --Biology of Dicyemid mesozoans
- 518 Shuster, Carl Nathaniel Jr. PhD
 Ecologist
 Office of Water Programs
 Environmental Protection Agency
 Crystal Mall, Building 2
 Washington, D.C. 20460
 (703) 557-7725
 B-1, B-8, B-12
 --Considerations regarding overall environmental impacts
 --Natural history and ecology of Xiphosura

- 519 Siegel, I. Myra MA
 Assistant to the Director and Editor
 TRIGOM
 96 Falmouth Street
 Portland, Maine 04103
 (207) 773-2981 ext. 306
 B-1, E-2, Data gathering and reporting, Marine science
 editing and writing
 --Marine ecology
 --Invertebrate biology
 --Plankton biology
 --Writing, editing and abstracting for marine science
 publications, including literature research
 and bibliographic compilation
- 520 Siegel, Robert Edward MA
 Instructor
 Department of Marine Science
 Southern Maine Vocational Technical Institute
 Fort Road
 South Portland, Maine 04106
 (207) 799-7303 ext. 67
 B-1, B-8, E-2
 --Photographic record of the invertebrates of Casco Bay
 --Littoral zone ecology
- * 521 Sieling, Fred W. MS
 Deputy Director
 Fish and Wildlife Administration
 State of Maryland
 State Office Building
 Annapolis, Maryland 21401
 (301) 267-5678
 A-1, B-1, B-2, B-5, B-8, B-9, B-12, C-4, C-7, D-1,
 D-8, E-1, F-6, G-2, H-2, H-3, Shellfish management
 --Studies of soft and hard clams, estuarine fish, and
 oyster ecology
- * 522 Sieling, Frederick William III MA
 Fisheries Extension Agent
 Fish and Wildlife Administration
 State of Maryland
 State Office Building
 Annapolis, Maryland 21401
 (301) 267-5438
 A-1, B-1, B-2, H-1, H-2, H-3
 --Hard clam research, especially of population trends

- * 523 Simmonds, Willard Irving Jr. HS
 Chemist
 Department of Limnology
 Academy of Natural Sciences of Philadelphia
 Benedict Estuarine Laboratory
 Benedict, Maryland 20612
 (301) 274-3194
 C-9, Water chemical concentrations and associated plankton communities
 --Estuarine concentrations of water chemical species, with emphasis on their horizontal and vertical distributions, and their associations with planktonic organisms
- 524 Simmons, George M. Jr. PhD
 Assistant Professor of Biology
 Biology Department
 Virginia Polytechnic Institute and State University
 Blacksburg, Virginia 24061
 (703) 552-6679
 B-2, B-8, B-11, B-12, B-17, B-19, C-9, E-1, E-3, F-6, G-6, G-7, H-2, H-3
 --Eutrophication
- *525 Sipple, William Stanton MA
 Natural Resource Planner
 Wetlands Division
 Department of Chesapeake Bay Affairs
 State Office Building
 Annapolis, Maryland 21402
 (301) 267-5774
 B-6, Wetland ecology
 --Tidal wetlands studies; including geographical distribution, distribution in relation to salinity, amount of tidal inundation and soil texture in vascular plants and ecological effects of spoil disposal
- *526 Slaughter, Turbit H. MA
 Geologist
 Estuarine Geology
 Maryland Geological Survey
 214 Latrobe Hall
 The Johns Hopkins University
 Baltimore, Maryland 21218
 (301) BE5-0771
 --Sedimentation, erosion and littoral processes in the Chesapeake Bay and on the Atlantic Coast

- 527 Smayda, Theodore John PhD
 Professor, Oceanography and Botany
 Graduate School of Oceanography
 University of Rhode Island
 Kingston, Rhode Island 02881
 (401) 792-6171
 B-17, B-19, Phytoplankton
 --Factors, including nutrients, grazing, and physical
 factors responsible for the seasonal cycles
 in phytoplankton abundance and species succession
 --Bioassay of water masses
 --Physiological ecological studies of natural communities
 --Culturing of phytoplankton and zooplankton
 --Quantitative explanations for a model of seasonal
 phytoplankton abundance and species succession
 in communities in general, and in Narragansett
 Bay, Rhode Island, in particular
- 528 Smith, Bruce William MS
 Staff Biologist
 Engineering Department
 Public Service Company of New Hampshire
 1000 Elm Street
 Manchester, New Hampshire 03105
 (603) 669-4000 ext. 429
 B-2, B-8, B-12
 --Aquaculture of commercially important species in
 thermally charged waters
 --Entrapment of fish and invertebrates on power
 generating station intake screens
 --Entrainment effects on estuarine plankton
- *529 Smith, Craig Lasalle PhD
 Associate Marine Scientist
 Division of Geological Oceanography
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext. 74
 C-3, C-6, E-3
 --Marine organic chemistry
 --Oil pollution
 --Effects and fate of oil spills
 --Organic geochemistry of sediments

- *530 Smith, Richard Allmon MS
 Research Associate
 Department of Geography and Environmental
 Engineering
 The Johns Hopkins University
 Charles and 34th Streets
 Baltimore, Maryland 21218
 (301) 366-3300 ext. 286
 B-17, B-19, G-5
 --Phytoplankton production in the Chesapeake Bay
 region; including studies of production measurement
 techniques, diurnal periodicities in production
 rates, and effects of thermal discharges on
 phytoplankton production
 --Development of models describing phytoplankton
 production and growth as functions of controlling
 factors, with particular emphasis on the effects
 of temperature change
- 531 Smith, Roland Fred PhD
 Administrator
 Chief, Division of Living Resources
 Office of Marine Resources
 Department of Commerce
 NOAA
 6010 Executive Building
 Rockville, Maryland 20852
 (301) 496-8472
 B-1, B-8, B-9, Administration
 --Estuarine ecology
 --Coastal zone management
 --Fisheries biology
 --Pollution studies
- *532 Smith, Ronal William MS
 Resident Biologist
 College of Marine Studies
 University of Delaware
 Drawer 286
 Lewes, Delaware 19958
 (302) 645-6676
 A-1, B-5, B-8, B-9
 --Fin fish research
 --Estuarine ecology of the Delaware Bay and the C and
 D Canal

- * 533 Smith, Susan Kurrle BS
 Biologist
 Annapolis Field Office
 Environmental Protection Agency
 Annapolis Science Center
 Annapolis, Maryland 21401
 (301) 268-5038 ext. 23
 B-1, B-8, B-17
 --Studies of the different trophic levels of the
 estuarine community, especially of phytoplankton
 and fishes
- 534 Smith, Wade Barnes MA
 Department of Environmental Engineering
 University of Florida
 Gainesville, Florida 32601
 (904) 392-0834
 B-8, B-19, G-5
 --Structure and function of estuarine ecosystems
 adapting to inputs due to the activities of man
 --Utilization of principles of ecosystem self-design
 to produce new systems capable of most effectively
 serving as an interface between the waste flows
 of man-dominated systems and estuaries
 --Adaptations of estuarine systems to power plant
 thermal addition inflows
- 535 Smith, Walter Leonard --
 Head, Marine Science and Technology
 Marine Science and Technology Department
 Suffolk County Community College
 College Road
 Selden, New York 11784
 (516) 732-1600 ext. 243
 B-5, B-12, E-2
 --Diseases of cold blooded animals
- * 536 Sohn, I. Gregory PhD
 Geologist
 U.S. Geological Survey
 Department of the Interior
 Washington, D.C. 20242
 (202) 343-2885
 B-12
 --Ostracoda studies

- * 537 Sommer, Sheldon E. PhD
 Assistant Professor
 Geochemistry Division
 Chemistry Department
 University of Maryland
 Chemistry Building
 College Park, Maryland 20742
 (301) 454-4413
 B-8, C-1, C-3, D-1, D-2, D-3, D-7, D-8, E-2, E-3
 --Geochemistry of marine and estuarine sediments
 and associated fluids; including the chemical
 nature and bonding character of metals in or on
 clay minerals and organics, the formation and
 alteration of mineral phases in the Bay sediments,
 particularly $\text{FeS} \rightarrow \text{FeS}_2$, the dispersal patterns
 of elements and sediments in the Bay watershed
 and the application of electron microprobe analysis
 and electron spectrometry to the study of estuarine
 sediments and suspended particulate material
- * 538 Sorokin, Constantine A. PhD
 Research Professor
 Botany Department
 University of Maryland
 College Park, Maryland 20742
 (301) 454-3821 ext. 38
 B-1, B-16, High temperature algae
 --Physiology and biochemistry of phytoplankton,
 specifically temperature characteristics of
 phytoplankton and its performance at elevated
 temperatures
- 539 Soukup, Michael A. MS
 Lecturer
 Department of Zoology
 University of Massachusetts
 Amherst, Massachusetts 01002
 (617) 253-5136
 B-12, B-18, C-3
 --Silica budgets for estuaries, especially the effects
 of a decrease in silica concentration
 --Life-histories of estuarine snails
- * 540 Southwick, Charles H. PhD
 Professor
 Department of Pathobiology
 The Johns Hopkins University
 615 North Wolfe Street
 Baltimore, Maryland 21205
 (301) 955-3604

B-6, B-8, B-19

--Systematics and ecology of Eurasian watermilfoil (Myriophyllum spicatum) and other submerged vascular plants in Chesapeake Bay; including studies of water quality and other ecological conditions such as factors inhibiting or promoting the growth of aquatic vegetation, documentation of seasonal and annual fluctuations in the abundance and distribution of these species and net productivity studies

*541 Speir, Harley Joseph MS
Biologist II
Maryland Department of Natural Resources
Fish and Wildlife Administration
State Office Building
Annapolis, Maryland 21401

B-9, E-1, H-2

--Fisheries biology; including determination of anadromous fish associated with wetlands; their seasonal variability of occurrence; estimation of their standing crop; their relationships with wetland dependent competitors, predators, and forage species; and their association with the chemical and physical characteristics of the wetland aquatic habitat

--Baseline study of the chemical and physical characteristics of the wetland aquatic habitat

*542 Sprague, Victor PhD
Research Professor
Natural Resources Institute
University of Maryland
P.O. Box 38
Solomons, Maryland 20688
(301) 326-4281

B-12, B-15, G-6, Invertebrate pathology, Protozoology

--Taxonomy, morphology, life cycle, and host-parasite relations of protozoan parasites of estuarine animals, especially of the Microsporidia and Haplosporidia in decapods and bivalve molluscs

*543 St. Pierre, Richard Alan MS
Assistant Marine Scientist
Department of Ichthyology
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111 ext. 64

B-5, B-9, B-18

--Fisheries biology; including population dynamics, life history studies, and larval fish culture

and maintenance
--Productivity analyses
--Plankton identification and enumeration

*544 Staley, Thomas Edwin PhD
Post-Doctoral Research Fellow
Biology Department
Georgetown University
37th and O Streets N.W.
Washington, D.C. 20007
(202) 625-4126

B-13

--Analysis of polynucleotide sequence relationships among strains of Vibrio parahaemolyticus from various areas of Chesapeake Bay and genetic comparisons of these strains with ones causing human infections in Japan and in Cambridge, Maryland

545 Steenis, John Holt BS
Consultant Biologist
RFD 2, Box 118
Warren, Maine 04864

B-6, B-8, B-14, B-19

--Ecological investigations on submersed vegetation to determine how to improve and manage it not only for waterfowl feeding but also for preservation of biotic balance

546 Stenger, John R. MA
President
Environmental Education and Protection
126 Gills Neck Road
Lewes, Delaware 19958
(301) 645-8354

B-1, B-6, B-11, D-1, E-1, E-3, G-6, H-2

547 Stenzel, Henryk Bronislaw PhD
Consulting Professor
Geology Department
Louisiana State University
Baton Rouge, Louisiana 70803
(504) 388-2131

B-9, B-12, Paleontology, Phylogeny
--Taxonomy and phylogeny of oysters

- 548 Stibult, Kenneth Allan MSME
 Assistant Professor
 Ocean Engineering Technology
 Anne Arundel Community College
 101 College Parkway
 Arnold, Maryland 21012
 (301) 647-7100 ext.273
 A-2, E-2, G-6
 --Program development to train research assistants
 in marine biology
- 549 Stieber, Michael Thomas MS
 Graduate Teaching Assistant
 Botany Department
 University of Maryland
 College Park, Maryland 20742
 (202) 454-3812
 B-6
 --Taxonomy of vascular plants of Anne Arundel County,
 Maryland, especially that of the grasses (Gramineae)
- 550 Stolworthy, Edward Howard BS
 Professor Emeritus
 Engineering Design and Analysis Laboratory
 University of New Hampshire
 Durham, New Hampshire 03824
 (607) 862-1356
 A-2, B-2, Underwater research habitat studies
- 551 Strathmann, Richard R. PhD
 Assistant Professor
 Zoology Department
 University of Maryland
 College Park, Maryland 20742
 (301) 454-5450
 B-1, B-8, B-12, B-17
 --Invertebrate biology; including studies of life
 cycles and of larval biology and ecology of filter
 feeders
- *552 Sulkin, Shelley Turpin BS
 Faculty Research Assistant
 Environmental Research
 University of Maryland
 Chesapeake Biological Laboratory
 Solomons, Maryland 20688
 B-1, B-8, B-12
 --Determination of primary productivity in Chesapeake
 Bay waters surrounding a nuclear power plant
 --Nutrient analysis of sea water in a closed ecosystem

* 553 Sulkin, Stephen David PhD
Research Assistant Professor
Natural Resources Institute
University of Maryland
Chesapeake Biological Laboratory
Solomons, Maryland 20688
(301) 326-4281 ext. 66

B-8, B-9, B-12

--Population dynamics of Callinectes sapidus in the Chesapeake Bay; including studies of abundance of various size-classes in order to develop a predictive model of the future commercial catch, of the influence of temperature and diet upon the reproductive potential of adults, and of the influence of natural diets upon the survival and growth of larvae

* 554 Sullivan, Kevin J. PhD
Assistant Director
Chesapeake Bay Center for Environmental Studies
Smithsonian Institution
Route 4, Box 622
Edgewater, Maryland 21037
(301) 798-4424

H-1, H-2, H-3

--Land-use planning studies
--Public participation studies
--Research in decision-making processes

555 Suydam, Ervin Lynn EdSp
Instructor
Marine Science Department
Rappahannock Community College
Glenns, Virginia 23149

A-1, B-9, B-15, G-6

--Studies of fish gill parasites, especially of monogenetic trematodes
--Marine science curriculum

556 Swan, Emery F. PhD
Professor
Zoology Department
University of New Hampshire
Spaulding Building
Durham, New Hampshire 03824
(603) 862-2100

B-1, B-12

--Growth and variation of sea urchins
--Environmental effects on spicules of calcareous sponges

- * 557 Swartz, Richard Carlyle PhD
Associate Marine Scientist
Department of Ecology Pollution
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111 ext.28
B-1, B-12, Ethology
--Ethology and ecology of aquatic animals, especially
estuarine mud crabs (Xanthidae, Brachyura)
- * 558 Swift, Donald J.P. --
Research Oceanographer
Atlantic Oceanography and Meteorology Laboratory
NOAA
901 S. Miami Avenue
Miami, Florida 33130
(305) 350-4195
D-1, D-8
--Sedimentation at the Chesapeake Bay mouth and
adjoining continental shelf
- 559 Swift, Dorothy G. MA
Graduate Student
The Johns Hopkins University
Earth and Planetary Sciences Department
Graduate School of Oceanography
University of Rhode Island
Kingston, Rhode Island 02881
(401) 792-6173
B-6, B-17, E-2
--Nutritional studies, with emphasis on vitamin
metabolism, of marine diatoms of the genera
Thalassiosira and Chaetoceros, isolated from
the Gulf of Maine
- 560 Szekiolda, Karl Heinz PhD
Assistant Professor
Chemical Oceanography
University of Delaware
Newark, Delaware
(302) 738-1212
C-2, C-3, C-4
--Accumulation of surfactive compounds in ocean fronts
--Analysis of surface aggregates (films, foam) for
inorganic and organic compounds

- 561 Tagatz, Marlin Eugene BS
 Fishery Research Biologist
 Gulf Breeze Laboratory
 Environmental Protection Agency
 Sabine Island
 Gulf Breeze, Florida 32561
 (904) 932-5326
 B-5, B-8, E-3
 --Effect of pesticides on experimental ecosystems
 --Biology of the blue crab, menhaden, and anadromous fish
 --Survey of estuarine fishes
- 562 Taylor, Jonathan E. PhD
 Assistant Professor
 College of Marine Studies
 University of Delaware
 Newark, Delaware 19711
 (302) 738-1212
 B-6, B-19, Systems ecology
 --Ecology and physiology of benthic algae
 --Ecology of marine "grasses"
 --Primary productivity of phytoplankton and benthic algae
 --Systems ecology of estuaries and lagoons
- *563 Ten Broeck, Craig William MS
 Natural Resources Planner
 Planning and Evaluation Section
 Maryland Department of Natural Resources
 State Office Building
 Annapolis, Maryland 21401
 (301) 267-5767
 B-8, H-2, H-3
 --Program design for the coastal zone management program of Maryland
 --Creation of recreational access to the Chesapeake Bay
- 564 Tenore, Kenneth Robert PhD
 Postdoctoral Investigator
 Biology Department
 Woods Hole Oceanographic Institution
 Woods Hole, Massachusetts 02543
 (617) 548-1400 ext. 301
 B-2, B-8, G-6, Benthic ecology
 --Macrobenthic community studies
 --Relationship of community structure to function (energetics)
 --Determination of detrital food chains of deposit feeding benthos

565 Terrell, Charles Richard --
Assistant Professor
Biology Department
Salem-State College
Lafayette Street
Salem, Massachusetts 01970
(617) 745-0556 ext.376
B-1, B-8

566 Thayer, Gordon Wallace PhD
Fishery Biologist Project Leader
Department of Commerce
NMFS
Atlantic Estuarine Fisheries Center
Pivers Island
Beaufort, North Carolina 28516
(919) 728-4595 ext.45

B-8, B-12, B-17

- Nutrient limiting factors and the influence of detritus on the competition between phytoplankton and bacteria for nutrients
- Phytoplankton and algal production
- Energy content of estuarine organisms
- Energetics of benthic invertebrate populations and energy flow in benthic and seagrass communities
- Influence of temperature changes on metabolism, survival, and energetics of benthos and of plankton

567 Thomas, David Laurence PhD
Project Leader
New Jersey Marine Ecological Study
Ichthological Associates
West Brook Lane
Box 70 D RD 2
Absecon, New Jersey 08201
(609) 646-8366

B-1, B-5, B-8

- Fisheries biology; including the ecology and early life history studies of the drums (Sciaenidae) in the lower Delaware River
- Broad ecological study in conjunction with a proposed offshore nuclear generating station

*568 Thompson, Jesse C. Jr. PhD
Chairman
Biology Department
Roanoke College
Salem, Virginia 24153
(703) 389-2351 ext.271

Protozoology

- Taxonomy and morphology of ciliated Protozoa

- 569 Thurberg, Frederick P. PhD
 Research Physiologist
 NOAA
 National Marine Fisheries Service
 Rogers Avenue
 Milford, Connecticut 06460
 (203) 878-2459
 B-12, B-16, E-3
 --Effects of marine contaminants on oxygen consumption
 and osmoregulation of crustaceans and molluscs
 --Physiology of marine biotoxins
- 570 Tietjen, John H. PhD
 Associate Professor
 Biology Department
 City College of New York
 Convent Avenue at 138 Street
 New York, New York 10031
 (212) 621-2549
 B-8
 --Physiological ecology of estuarine meiofauna, especially
 of free-living nematodes
- 571 Tiller, Richard Edward PhD
 Associate Professor
 Biology Department
 Charles County Community College
 Box 910
 Mitchell Road
 LaPlata, Maryland 20646
 (301) 934-2251 ext.77
 B-8, B-18, B-19, C-7, C-9, E-1, E-3, F-6, G-6, H-2
 --Conducting two-year training curriculum for estuarine
 research technicians
- 572 Tischler, Herbert PhD
 Professor and Chairman
 Earth Sciences Department
 University of New Hampshire
 James Hall
 Durham, New Hampshire 03824
 (603) 862-1718
 B-12, B-13, E-3
 --Benthic Foraminifera in Great Bay, New Hampshire
- 573 Truitt, Reginald VanTrump PhD
 Founder and Director
 Chesapeake Biological Laboratory
 Maryland Department of Research and Education
 State of Maryland
 Solomons, Maryland 20688

A-1, B-5, B-9, H-2
--Molluscan and crustacean studies

*574 Tubiash, Haskell Solomon MS
Research Microbiologist
National Oceanic Atmospheric Agency
National Marine Fisheries Service
Biological Laboratory
Oxford, Maryland 21654
(301) 226-5193

B-8, B-13, E-3
--Microbiology; including the role of microorganisms in
animal diseases and the effect of V. parahemolyticus
and other vibrios on recruitment of commercial
mollusks and crustaceans

575 Turegeon, Kenneth Wayne MA
Teaching Assistant and Instructor
Zoology Department
University of New Hampshire
Spaulding Life Science Building
Durham, New Hampshire 03824
(607) 862-2175

B-1, B-8, B-16
--Comparative study of osmotic adjustment mechanisms
between two populations of marine, prosobranch
gastropods (Urosalpinx)
--Physiological responses of marine invertebrates to
environmental stress conditions
--Possible existence of molluscan pheromones
--Supplemental feeding of oysters with carbohydrates

*576 Uhler, Francis Morey BA
Biologist (Semi-retired)
Patuxent Wildlife Research Center
USDI
Bureau of Sport Fisheries and Wildlife
Laurel, Maryland 20810

B-6, B-8, B-12, B-14
--Factors affecting the waterfowl feeding grounds
along the Chesapeake Bay and its tributaries

*577 Ukeles, Ravenna PhD
Research Microbiologist
Algal Studies
National Marine Fisheries Service
Milford, Connecticut 06460
(203) 878-2459

A-4, B-1, B-2, B-8, B-13, B-17, C-2, C-8, E-3, G-2
--Nutrition and physiology of estuarine micro-algae
and Protozoan species and feeding processes
in larval invertebrates

- * 578 Ulanowicz, Robert Edward PhD
 Research Assistant Professor
 Natural Resources Institute
 University of Maryland
 P.O. Box 38
 Solomons, Maryland 20688
 (301) 326-4281 ext. 73
 B-18, C-4, G-5
 --Ecosystems modeling; including modeling of the
 population dynamics of the producer and herbivore
 components of estuarine planktonic systems
 --Prototype data acquisition of tidal currents and
 salinities in Chesapeake Bay
- * 579 Ustach, Joseph F. MS
 Faculty Research Assistant
 Natural Resources Institute
 University of Maryland
 Box 38
 Solomons, Maryland 20688
 (301) 326-4281 ext. 44
 B-1, B-8, B-17
 --Detritus and associated organisms and their role
 in trophic structure
- 580 Vagenas, George MS
 Professor of Botany
 Biology Department
 North Shore Community College
 3 Essex
 Beverly, Massachusetts 01915
 (617) 927-4850
 B-6, E-3, G-2
 --Salt marsh research in Massachusetts; including
 flora, fauna, chemical composition and human
 history studies
- 581 Valiulis, George A. MS
 Research Assistant
 Department of Oyster Culture Zoology
 Rutgers University
 New Brunswick, New Jersey 08903
 B-8, B-12, B-15
 --Shellfish pathology; including disease resistance
 of oysters

- * 582 Van Engel, Willard A. PhD
 Senior Marine Scientist
 Department of Crustaceology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111
 B-1, B-8, B-9
 --Blue Crab biology; including estimations of mortality rates, growth rates and recruitment rates; studies of migration, and predictions of the commercial catch in Chesapeake Bay and its tributaries
 --Identification and estimation of numbers of small-sized crustacean plankton found in open waters of Chesapeake Bay and over continental shelf waters
 --Ecological studies on mud crabs, with special reference to the effects of parasitism by sacculinids
 --Study of methods for rearing crustaceans in the laboratory
- * 583 Van Valkenburg, Shirley Dawn PhD
 Assistant Professor
 Botany Department and Chesapeake Biological Laboratory
 University of Maryland
 College Park, Maryland 20742
 (301) 454-3821
 B-1, B-6, B-17, Phytoplankton taxonomy and culture, Ultrastructure of chrysophytes
 --Micro-flagellate phytoplankton studies, especially of Chrysophyta
- * 584 Vaughn, Moses W. PhD
 Professor of Food Technology
 Agriculture Department
 University of Maryland Eastern Shore
 Box 1048
 Princess Anne, Maryland 21853
 (317) 651-2200
 B-8, C-9, E-1, E-3, G-6
 --Studies of nitrogen partitions in fishmeals
 --Determinations of microorganisms in fishery products preserved with ionizing radiations
 --Studies of the significance of the bacterial flora in bottom muds
 --Washing shell stock and handling shucked oysters to bacterial quality
 --Microwave opening of oysters and commercial processing operations

- 585 Verber, James Leonard MS
 Captain
 Northeast Technical Service Unit
 HEW-PHS
 FDA
 CBC Building S-26
 Davisville, Rhode Island 02854
 (401) 267-2307
 E-2, E-3, F-6
 --Pollution studies, especially on shellfish
- 586 Vernberg, F. John PhD
 Professor and Director
 Baruch Institute
 University of South Carolina
 Columbia, South Carolina 29208
 (803) 777-5288
 B-1, B-8, B-16
 --Studies of interaction of environmental factors
 and functional response of animals
 --Physiological ecology
- 587 Vernberg, Winona B. --
 Research Professor
 Baruch Coastal Research Institute
 University of South Carolina
 Columbia, South Carolina 29208
 (803) 777-5288
 B-8, B-16, E-3
 --Synergistic effects of mercury and environmental
 factors on the survival, metabolism and behavior
 of all stages in the life cycle of the fiddler
 crab, Uca pugilator
 --Effects of water exposed to sediments from the
 Charlestown Harbor area on larval zooplankton
- *588 Villa, Orterio BS
 Chemist, Chief Development Laboratory
 Annapolis Field Office
 Environmental Protection Agency
 Annapolis Science Center
 Annapolis, Maryland 21401
 (301) 268-5038 ext.29
 C-1, C-9, E-3
 --Nutrient chemistry of estuaries
 --Sources, cycles and sinks of macro-and micro-nutrients
 and their effects on the biota
- 589 Walker, Earl Tagg BA
 Staff Officer, Coastal Affairs
 Division of River Basin Studies
 Bureau of Sport Fisheries and Wildlife
 Department of the Interior
 Washington, D.C.
 G-2, H-2, Resource protection

--Protection of the estuarine habitat from the effects of navigation channel formations, nuclear power plants, and of dredge and fill projects

590 Wall, William James Jr. PhD
Professor
Biology Department
Bridgewater State College
Bridgewater, Massachusetts 02324
(617) 697-6167 ext. 317

B-8, B-12, C-7, Entomology

--Direct and indirect effects of pesticides on intertidal organisms

--Identification of invertebrates, particularly insects, associated with bloodsucking Diptera in intertidal areas

--Control of blood sucking Diptera breeding in intertidal areas, particularly of Tabanus spp.

591 Waller, Richard A. MS
Fish and Wildlife Administrator
Office of Environmental Quality
Bureau of Sport Fisheries and Wildlife
Department of the Interior
Washington, D.C. 20240
(202) 343-6913

B-1, B-8, B-12, C-4, C-9, D-8, E-1, E-2, E-3, H-2, H-3, Power plant siting

592 Waller, Thomas Richard PhD
Associate Curator
Department of Paleobiology
Smithsonian Institution
Washington, D.C. 20560
(202) 381-5370

B-4, B-12, Paleontology

--Evolution, living habits, functional morphology, and systematics of molluscs, particularly the family Pectinidae

593 Wang, Johnson C.S. PhD
Senior Research Biologist
Ichthyological Associates
P.O. Box 35, RD 2
Middletown, Delaware 19709
(302) 378-8877

B-1, B-2, B-5, B-8, B-9, B-13, B-20

--Fisheries biology on adults, larvae and eggs; including distribution, quick thermal changes on larvae and effects of suspended sediments on eggs, especially in the Chesapeake and Delaware Canal region

- * 594 Ward, Fraser Prescott VMD
 Chief, Ecological Research Program
 Biomedical Laboratory
 United States Army
 Edgewood Arsenal, Maryland 21010
 (301) 671-2586
 B-8, B-20, Wildlife diseases
 --Measurements of the environmental impact of research
 and developmental activities at Edgewood
 Arsenal on estuarine ecosystems
- * 595 Warinner, Junius Ernest MA
 Assistant Marine Scientist
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext.30
 B-19, E-3, F-6
 --Primary productivity studies, with particular interest
 in the red water bloom phenomena, its initiation,
 propagation, and demise
 --Studies of thermal effects and power plant siting
 criteria
- 596 Warlen, Stanley Milfred MS
 Fishery Biologist
 U.S. Department of Commerce
 National Marine Fisheries Service
 Pivers Island
 Beaufort, North Carolina 28516
 (919) 728-4595
 B-5, B-8, C-7
 --Fisheries biology
 --Estuarine ecology
 --Pollution biology; including pesticide and insecticide
 effects on estuarine organisms, especially
 studies on the accumulation of organochlorine
 insecticides by Atlantic menhaden during their
 estuarine existence (first year) in Newport
 River, North Carolina, particularly measuring
 uptake and loss rates of C¹⁴-pp DDT by larval
 and juvenile menhaden and monitoring levels of
 certain insecticides in plankton, sediments,
 and filtered water
- *597 Warneke, Mary Linton BA
 Faculty Research Assistant
 Chesapeake Biological Laboratory
 University of Maryland
 Box 212, Route 2-4
 Solomons Island, Maryland 20688
 (301) 326-3446

B-8, C-1, E-3

--Bay ecology, especially of chemical factors involved
in pollution

* 598 Wass, Marvin L.

PhD

Associate Marine Scientist
Biological Oceanography
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111 ext. 83

B-8, B-12, Wetlands

--Studies of benthic invertebrates; including determinations
of macroinvertebrate infauna of dredged areas, of
bottoms enriched by sewage, of inshore continental
shelf communities, and of eel grass beds, and of
epifauna of Zostera and Sargassum; ecology of
gammarid amphipods, of Rangia and chaetognaths;
systematics of Bittium; life history study of
Rangia; and reproductive biology of Littorina
--Wetlands research

599 Watling, Lee E.

MS

Resident Biologist
College of Marine Studies
University of Delaware
P.O. Drawer 286
Lewes, Delaware 19958
(302) 645-8489

B-4, B-8, B-12

--Benthic ecology
--Taxonomy and ecology of benthic invertebrates in
Delaware Bay and in the coastal lagoons of this
state

600 Watson, George Elder

PhD

Chairman
Department of Vertebrate Zoology
Smithsonian Institution
National Museum of Natural History
Washington, D.C. 20560
(202) 381-6127

B-14

--Distribution and ecology of marine birds in relation
to environmental factors

- Studies of dissolved organic compounds and their flux, especially of nitrogenous compounds; including aspects of the nitrogen cycle in relation to the plankton community

--Systematics, ecology, and life history studies of
benthic algae of salt marshes

- Environmental monitoring and data collecting using remote sensing and other aerial techniques

--Marine conservation, especially of fin fish, crabs, oysters, clams, soft shell clams and terrapins

605 Whaley, Horace Henry BS
Marine Superintendent
Chesapeake Bay Institute
The Johns Hopkins University
Baltimore, Maryland 21218
(301) 268-5231

- *606 Whaley, Richard Charles MA
Associate Research Scientist
Oceanography Department
The Johns Hopkins University
Charles and 34th Streets
Baltimore, Maryland
(301) 268-5231
A-2, B-8, B-17, B-19, C-4, C-9, D-8, E-2
--Plankton ecology
- *607 Wheaton, Frederick Warner PhD
Research Associate
Agricultural Engineering Department
University of Maryland
College Park, Maryland 20742
(301) 454-3901
A-2, B-2, F-4
--Engineering research in the seafood industry; including
developing a technique and the necessary equipment
to mechanize oyster shucking of Chesapeake Bay
oysters
--Development of closed cycle systems for raising
aquatic organisms; including growing oysters
fed with a non-algal food
- 608 Wheeler, Ellsworth H. PhD
Assistant Professor
Zoology Department
University of New Hampshire
Durham, New Hampshire 03824
(603) 862-2112
B-17, B-18, E-2, Deep sea biological oceanography
--Estuarine zooplankton, particularly of Copepoda,
including systematics and general ecology
- *609 Wheeler, Richard Hoelzen BS
Biologist
Wetlands Division
Department of Natural Resources
State Office Building
Annapolis, Maryland 21401
(301) 267-5774
B-6, B-8, Wetlands ecology
--Studies on the tidal wetlands in Maryland; including
the geographical distribution of vascular plants,
especially in relation to salinity; the amount
of tidal inundation and soil texture; and the
ecological effects of spoil disposal

- *610 Whitcomb, James Paul BA
 Assistant Biologist
 Department of Applied Biology
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext.85
 B-1, G-7
 --General clam survey
- *611 White, John Conner Jr. MS
 Chief Biologist
 Environmental Control
 Virginia Electric and Power Co.
 P.O. Box 26666
 Richmond, Virginia 23621
 (703) 771-3389
 B-8, E-1, H-3
 --To insure an adequate power supply with a minimum
 of environmental impact
- *612 Wiemeyer, Stanley N. MS
 Research Biologist
 Department of the Interior
 Bureau of Sport Fisheries and Wildlife
 Patuxent Wildlife Research Center
 Laurel, Maryland 20810
 (301) 776-4880 ext. 261
 B-14, B-18, E-3
 --Population trends and reproductive success of
 ospreys on a tidal portion of the Potomac River,
 including possible effects of environmental
 pollutants
 --Bald eagle populations and reproductive success in
 the Chesapeake Bay area; including determination
 of the levels of environmental pollutants in them
 with relation to their reproductive success
- 613 Wilcox, Churchill Klages MS
 Teaching Assistant
 General Education Department
 Harvard University
 Cambridge, Massachusetts 02138
 and
 Lecturer
 Civil Engineering Department
 Tufts University
 Medford, Maine 02155
 G-5, G-6, Gas exchange across air-sea interface
 --Construction of a simulation model of the carbon
 dioxide balance among the atmosphere, ocean
 and biosphere in order to investigate the
 effects of increasing concentrations of carbon
 dioxide on the world climate

- 614 Wilcox, J. Ross PhD
 Instructor
 Graduate School of Oceanography
 University of Rhode Island
 Kingston, Rhode Island 02881
 (401) 792-6281
 B-1, B-8, B-12
 --Biology and feeding habits of the sand shrimp,
Crangon septemspinosa
- *615 Wiley, Cloyde William Jr. BA
 Director
 Bureau of Shellfish Sanitation
 Virginia State Health Department
 109 Governor Street
 Richmond, Virginia 23219
 (703) 770-6277
 B-10, C-9, E-1
 --Administration in the state shellfish sanitation
 control program
- *616 Wiley, Martin Lee PhD
 Research Assistant Professor
 Natural Resources Institute
 University of Maryland
 Box 38
 Solomons, Maryland 20688
 (301) 326-4281
 B-5, B-8, B-9
 --Fisheries biology and ecology
- 617 Wilk, Stuart J. BS
 Fishery Biologist (Research)
 National Marine Fishery Service
 Sandy Hook Marine Laboratory
 Fort Hancock
 Highlands, New Jersey 07732
 (201) 872-0200 ext. 34
 B-5, B-9, B-18
 --Fisheries biology; including the distribution, age,
 growth, population characteristics, food habits,
 and states of maturity of the following sciaenid
 species: weakfish, Atlantic croaker, spot and
 Northern and Southern kingfish; the morphometric and
 meristic analysis of the following species to
 define stocks and/or races: summer flounder,
 Gulf flounder, Southern flounder, and bluefish;
 and the continuation of an ongoing survey of
 coastal fishes

- 618 Wilkens, E. Peter H. BS
 Fishery Biologist
 National Marine Fishery Service
 S.E. Fishery Center
 75 Virginia Beach Drive
 Miami, Florida 33149
 (308) 361-5761
 B-5, B-9, B-17
 --Fisheries biology; including abundance, distribution
 and early life history studies
- * 619 Williams, Arthur Hilton MS
 Anadromous Project Leader
 Fisheries Division
 Louisiana Wildlife and Fisheries Commission
 P.O. Box 426
 Ferriday, Louisiana 71334
 (318) 757-4571
 B-9
 --Fisheries biology; including investigations of the
 striped bass which are native to the Chesapeake
 Bay and how they differ from more southerly races
- * 620 Williams, Austin B. PhD
 Systematic Zoologist
 Systematics Laboratory
 Department of Commerce
 NMFS
 U.S. National Museum
 Washington, D.C. 20560
 (202) 381-5923
 B-8, B-12, Systematics of decapod crustaceans
 --Systematics and ecology of decapod crustaceans
 --Temporary plankton of estuaries
- 621 Williams, David Harry MS
 Instructor in Biology
 Science Department
 Anne Arundel Community College
 101 College Parkway
 Arnold, Maryland 21012
 (301) 647-7100 ext. 320
 B-8, B-18, E-3
 --Plankton sampling and analysis
 --Benthic invertebrates
 --Fisheries biology
 --Animal behavior

- *622 Williams, Jerome MA
Associate Professor
Environmental Sciences Department
U.S. Naval Academy
Annapolis, Maryland 21402
(301) 267-3561
A-2, F-1, F-5, G-6
--Optical properties of estuarine waters
--Instrumentation
--Estuarine dynamics
- 623 Willims, Richard Birge PhD
Leader Estuarine Energetics Program
Atlantic Estuarine Fisheries Center
National Marine Fisheries Service
Beaufort, North Carolina 28516
(919) 728-4595
B-8, B-17, B-19, G-5
- 624 Willingham, Charles Allen PhD
Senior Marine Biologist
Marine Sciences Department
Wm. F. Clapp Laboratory of Battelle
Washington Street
P.O. Box 1637
Duxbury, Massachusetts 02332
(617) 934-5684
B-8, B-13, E-3
--Ecology of estuarine areas as it pertains to dredge-
fill activities and thermal additions from power
plants
--Microbial ecology of submerged surfaces of the mud/water
interface
- *625 Wilson, Woodrow Lee NS
Laboratory Specialist
Department of Ichthyology
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111 ext. 64
A-1, B-9, B-18
--Fisheries biology, especially of anadromous fishes
- 626 Windsor, John Golay Jr. MA
Research Assistant
Department of Geochemical Oceanography
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111 ext. 78
C-1, C-6, C-7
--Air-sea and sea-bottom interactions

- *627 Winn, Paul Norfleet MS
 Research Professor
 Agricultural Engineering Department
 University of Maryland
 College Park, Maryland 20742
 (301) 454-3901
 A-2, B-2, E-3
 --Fisheries biology; including studies of the physical parameters of temperature, water quality, feed disease control, light, stocking density and waste disposal required for the extended operation of a closed cycle system for optimum production of fin fish
- 628 Wiper, Harold A. MS
 Science Teacher
 Science Department
 Newton High School
 Palmer House
 Walnut Street
 Newtonville, Massachusetts 02160
 (617) 969-9810 ext. 225
 B-1, E-2, G-6
- *629 Wojcik, Frank John MS
 Assistant Marine Scientist
 Department of Statistics and Data Processing
 Virginia Institution of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111
 B-9, B-12, G-1
 --Data processing and data analysis
 --Life history of the blue crab
 --Life history of the Alaskan grayling
- 630 Wolfe, Douglas Arthur PhD
 Director, Division of Ecology
 Atlantic Estuarine Fisheries Center
 NOAA
 National Marine Fisheries Service
 Pivers Island
 Beaufort, North Carolina 28516
 (919) 728-4595
 B-8, C-1, E-3
 --Accumulation of trace elements, heavy metals and radionuclides by estuarine organisms, flux of these materials through estuarine ecosystems, and their effects upon organisms and ecosystems

- * 631 Wood, John Langille PhD
Associate Director
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111 ext. 41
B-1, B-13, Administration of research
--Administration of research, marine biology, and
marine microbiology of Chesapeake Bay, its
tributaries and the continental shelf
- 632 Wood, Lindsay Wallace PhD
Postdoctoral fellow
Department of Zoology
University of Toronto
25 Harbord Street
Toronto, 5 Ontario
Canada
B-1, C-1, E-3
--Role of microbes and benthos in the cycling of
organic solutes and other nutrients at the
sediment water interface
--Studying both polluted systems and less polluted
systems with regard to the controls and processes
in order to determine the effects of enrichment
or alternations in loading
- 633 Wood, Richard Dawson PhD
Professor
Botany Department
University of Rhode Island
Kingston, Rhode Island
(401) 792-2161
B-6, B-8, Aquatic plant ecology
--Algae, both macro and micro, of estuarine water;
including their systematics, ecology, seasonal
periodicity, interacting associations, and
measurable factors
- 634 Woods, William Joseph PhD
Associate Professor
Institute of Marine Sciences
University of North Carolina
P.O. Drawer 809
Morehead City, North Carolina 28557
(919) 726-6841
B-8, B-17, B-19, C-4, C-8, E-2, G-6
--Productivity
--Nutrient cycling
--Plankton ecology
--Relationship between water chemistry and plant
composition
--Availability of primary producers as food
--Energy flow through the food chain

- 635 Woodson, Bernard Robert Jr. PhD
 Professor
 Biology Department
 Virginia State College
 Petersburg, Virginia 23803
 (703) 526-2868
 B-6, B-17, B-19, C-7, E-1, G-6
 --Algal systematics and productivity
 --Effects of pesticidal concentrations on algal
 development in the laboratory environment
- *636 Worthley, Elmer George PhD
 Biologist
 U.S. Department of the Army
 BioMedical Laboratory
 Edgewood Arsenal
 Experimental Medicine Branch
 Edgewood Arsenal, Maryland 21010
 (301) 671-2247
 B-6, B-8, E-1
 --Plant life near Edgewood Arsenal, Maryland; including
 any effects on it that might be caused by either
 actual or potential pollution
- 637 Wright, Richard Thomas PhD
 Professor of Biology
 Biology Department
 Gordon College
 Wenham, Massachusetts 01984
 (617) 927-2300 ext 262
 B-13, B-17, B-19
 --Influence of mixing in a tidal estuary on the uptake
 of organic solutes by planktonic and sediment
 bacteria, and on the transformation of that organic
 matter into new cells or into constituent minerals
- 638 Yanovitch, William Edward BS
 Assistant Watershed Manager
 Maryland Department of Water Resources
 State Office Building
 Annapolis, Maryland 21401
 (301) 267-5677
 B-9, C-9, E-3
- 639 Yeo, Harry William PhD
 Principal Assistant
 Telstar Regional High School
 SAD 44
 Bethel, Maine 04217
 (207) 824-2366
 B-6, B-17, E-3, G-6
 --Phytoplankton speciation as it relates to water quality

- * 640 Yorgiadis, Strati MS
 Senior Sanitary Engineer
 Sheppard T. Powell Associates
 501 Saint Paul Place
 Baltimore, Maryland 21202
 (301) 685-3210
 E-1, E-3, F-6, G-7, Consulting engineers
 --Hydrographic studies and meteorological studies in
 rivers and estuaries
- * 641 Zaneveld, Jacques Simon PhD
 Professor
 Institute of Oceanography
 Old Dominion University
 Box 6173
 Norfolk, Virginia 23508
 (703) 489-8000 ext. 456
 B-1, B-8, E-2
 --Study of the trophic-dynamic system of the Lower
 Chesapeake Bay; including productivity determinations
 --Taxonomy, ecology, morphology, geographical
 distribution, and aquaculture of benthic marine
 seaweeds
- 642 Zottoli, Robert A. PhD
 Associate Professor
 Biology Department
 Fitchburg State College
 Fitchburg, Massachusetts 01420
 (617) 343-6417 ext. 311
 B-1, B-8, B-12
 --Taxonomy of polychaetes, especially of the family
 Ampharetidae
 --Boring mechanism of Polydora websteri
- * 643 Zubkoff, Paul L. PhD
 Senior Marine Scientist and Head
 Environmental Physiology Department
 Virginia Institute of Marine Science
 Gloucester Point, Virginia 23062
 (703) 642-2111 ext 33
 B-17, C-2, Radiobiology
 --Application of biochemical principles and methodologies
 for investigating various aspects of the estuarine
 ecosystem; including studies of the phenomenon
 of "red water" development, primary productivity
 potential and heterotrophy of the estuarine
 ecosystem; biochemistry of the lipids, enzymes,
 and pigments of the jellyfishes, of the lipids
 and pigments of phytoplankton and of the lipids
 and proteins of zooplankton; and use of radioactive
 tracers with plankton

*644 Zwerner, David E. MA
Assistant Marine Scientist
Parasitology Section
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062
(703) 642-2111

B-8, B-15, Diseases of fishes
--Fisheries biology; including organisms causing fish
diseases and the distribution of fish ectoparasites,
especially of monogenetic trematodes and parastic
copepods

**CATEGORICAL INDEX OF PERSONNEL BY
KEYWORD RESEARCH INTERESTS**

The personnel included in this inventory have been listed in alphabetical order, and each scientist has been assigned a number. The Keyword designations for research interests were assigned letters for the general interest areas and numbers for the subdivisions within these interest areas. Thus, "B-8" indicates (B) "Biological Sciences, (8) Estuarine Ecology." The list of numbers following "B-8" refer to the scientists in the inventory who have designated "B-8" as a research interest. For example, number 5 follows "B-8" and therefore, Sidney Marshall Adams (scientist number 5 in the inventory) is interested in Estuarine Ecology.

A Applied (Industrial/Commercial)

A-1 Commercial fishing

13, 28, 89, 92, 94, 97, 143, 148, 189, 199,
215, 232, 236, 249, 284, 300, 308, 312, 325, 330,
345, 349, 358, 367, 416, 417, 456, 475, 508, 513,
521, 522, 532, 555, 573, 604, 625

A-2 Engineering & Instrumentation

31, 35, 52, 174, 194, 215, 272, 320, 359, 375,
488, 498, 548, 550, 606, 607, 622, 627

A-3 Fish Processing

42, 105, 199, 215, 356, 416, 435

A-4 Seaweed Extractives

215, 344, 428, 577

B Biological Sciences

B-1 Marine Biology (general)

7, 8, 13, 14, 19, 30, 35, 40, 48, 66,
69, 76, 77, 82, 83, 89, 90, 91, 93, 97,
98, 101, 105, 109, 110, 117, 121, 123, 125, 127,
129, 132, 137, 142, 147, 155, 156, 169, 170, 171,
172, 173, 183, 186, 187, 188, 204, 205, 211, 213,
217, 221, 224, 232, 237, 241, 244, 248, 261, 270,
275, 277, 282, 283, 284, 287, 291, 303, 304, 314,

315, 330, 338, 339, 340, 353, 364, 367, 368, 380,
390, 394, 402, 407, 410, 423, 427, 439, 449, 451,
458, 459, 460, 462, 465, 467, 470, 482, 487, 491,
494, 500, 502, 503, 505, 511, 515, 518, 519, 520,
521, 522, 531, 533, 538, 546, 551, 552, 556, 557,
565, 567, 575, 579, 582, 583, 586, 591, 593, 610,
614, 628, 631, 632, 641, 642

B-2 Aquaculture

6, 12, 35, 38, 74, 76, 81, 90, 92, 97,
103, 134, 153, 155, 174, 183, 184, 188, 198, 215,
226, 236, 242, 259, 260, 272, 283, 300, 312, 315,
319, 330, 344, 349, 352, 363, 369, 376, 394, 400,
404, 416, 418, 428, 429, 443, 456, 458, 469, 476,
480, 483, 492, 497, 501, 513, 521, 522, 524, 528,
550, 564, 577, 593, 607, 627

B-3 Bioacoustics

183, 395

B-4 Biogenography

41, 46, 58, 91, 101, 108, 142, 170, 183, 196,
233, 241, 270, 292, 341, 405, 406, 410, 427, 442,
445, 474, 481, 494, 592, 599

B-5 Biology of Fishes

8, 15, 21, 27, 53, 93, 108, 119, 122, 133,
142, 143, 151, 181, 183, 199, 206, 210, 235, 240,
274, 285, 295, 300, 302, 312, 324, 341, 342, 357,
388, 393, 405, 409, 411, 416, 444, 447, 454, 458,
462, 463, 466, 468, 475, 479, 499, 505, 506, 510,
521, 532, 535, 543, 561, 567, 573, 593, 596, 616,
617, 618

B-6 Botany

25, 58, 60, 86, 114, 146, 171, 195, 213, 230,
233, 243, 245, 251, 259, 275, 282, 291, 292, 297,
299, 306, 355, 365, 392, 393, 396, 426, 428, 432,
472, 504, 525, 540, 543, 545, 546, 549, 559, 562,
576, 580, 583, 602, 609, 633, 635, 636, 639,

B-7 Cold Water Biology

40, 184, 203, 348, 474

B-6-Estuarine Ecology

5, 7, 8, 9, 12, 13, 15, 16, 20, 21,
 23, 24, 26, 30, 33, 35, 41, 43, 44, 45,
 46, 48, 51, 53, 54, 56, 57, 59, 64, 65,
 67, 70, 71, 72, 74, 76, 77, 78, 79, 81,
 82, 86, 87, 89, 93, 95, 96, 97, 98, 100,
 101, 104, 107, 109, 111, 112, 116, 118, 120, 121,
 122, 126, 127, 128, 131, 133, 134, 136, 137, 138,
 139, 144, 146, 147, 151, 152, 153, 155, 157, 160,
 161, 162, 164, 165, 171, 172, 176, 179, 181, 182,
 183, 186, 187, 189, 190, 191, 192, 193, 196, 197,
 198, 199, 201, 202, 206, 209, 210, 218, 222, 224,
 225, 228, 232, 234, 235, 236, 238, 240, 242, 243,
 245, 247, 248, 251, 252, 253, 256, 257, 266, 268,
 271, 277, 279, 283, 287, 288, 289, 291, 293, 297,
 300, 301, 304, 305, 309, 310, 313, 314, 316, 317,
 318, 321, 325, 330, 334, 336, 338, 340, 343, 345,
 346, 347, 354, 355, 361, 362, 363, 364, 365, 366,
 368, 369, 371, 374, 376, 378, 379, 380, 381, 383,
 385, 389, 390, 391, 392, 393, 396, 397, 403, 404,
 407, 408, 414, 416, 418, 420, 421, 422, 426, 427,
 431, 432, 433, 440, 441, 443, 445, 448, 451, 455,
 459, 460, 462, 463, 464, 465, 466, 467, 470, 471,
 472, 476, 483, 485, 487, 492, 494, 496, 499, 500,
 510, 514, 518, 520, 521, 524, 528, 531, 532, 533,
 534, 537, 540, 545, 551, 552, 553, 561, 563, 564,
 565, 566, 567, 570, 571, 574, 575, 576, 577, 579,
 581, 582, 584, 586, 587, 590, 591, 593, 594, 596,
 597, 598, 599, 601, 602, 606, 609, 611, 614, 616,
 620, 621, 623, 624, 630, 633, 634, 636, 641, 642,
 644

B-9 Fisheries Biology

2, 8, 9, 10, 12, 19, 21, 24, 38, 43,
 54, 57, 74, 76, 84, 86, 94, 95, 98, 99,
 100, 107, 109, 113, 118, 134, 140, 143, 148, 151,
 154, 161, 181, 183, 189, 193, 197, 206, 209, 210,
 239, 249, 254, 274, 285, 289, 293, 300, 304, 309,
 312, 316, 321, 323, 326, 330, 338, 341, 345, 366,
 370, 376, 378, 385, 414, 415, 416, 420, 421, 425,
 430, 431, 433, 436, 438, 440, 447, 455, 460, 462,
 463, 466, 468, 469, 471, 473, 475, 482, 483, 484,
 491, 500, 506, 508, 511, 515, 521, 531, 532, 541,
 543, 547, 553, 573, 582, 593, 616, 617, 618, 619,
 625, 629, 638

B-10 Health & Medicine

17, 66, 141, 185, 294, 615

B-11 Human Ecology

17, 202, 524, 546

B-12 Invertebrate Biology

2, 3, 8, 12, 18, 19, 22, 27, 33, 39,
40, 45, 46, 47, 66, 67, 69, 76, 77, 78,
82, 91, 92, 93, 97, 101, 104, 117, 119, 124,
125, 132, 139, 153, 155, 160, 162, 166, 167, 170,
173, 186, 188, 190, 192, 205, 211, 212, 213, 222,
224, 226, 228, 232, 237, 244, 247, 248, 255, 261,
283, 287, 288, 289, 301, 302, 303, 305, 309, 311,
314, 318, 325, 330, 335, 339, 352, 353, 368, 369,
371, 378, 379, 381, 383, 384, 389, 390, 394, 395,
398, 406, 407, 418, 422, 423, 427, 429, 430, 438,
439, 441, 442, 445, 448, 451, 459, 465, 467, 469,
474, 476, 478, 479, 480, 481, 487, 491, 494, 495,
496, 497, 500, 501, 502, 503, 513, 515, 518, 521,
524, 528, 535, 536, 539, 542, 547, 551, 552, 553,
556, 557, 566, 569, 572, 576, 581, 590, 591, 592,
598, 599, 614, 620, 629, 642

B-13 Microbiology

8, 17, 20, 25, 63, 65, 88, 93, 105, 110,
112, 115, 119, 120, 121, 164, 172, 177, 221, 225,
250, 262, 276, 282, 297, 298, 299, 302, 317, 318,
375, 396, 403, 428, 432, 438, 484, 514, 544, 572,
574, 577, 593, 624, 631, 637

B-14 Ornithology

44, 72, 199, 255, 298, 328, 377, 395, 477, 507,
545, 576, 600, 612

B-15 Parasitology

27, 93, 119, 122, 160, 167, 195, 197, 223, 250,
298, 302, 305, 315, 348, 371, 411, 431, 438, 500,
517, 542, 555, 581, 644

B-16 Physiology

22, 30, 53, 68, 99, 118, 145, 160, 166, 195,
212, 216, 222, 240, 254, 256, 289, 301, 318, 321,
327, 332, 334, 382, 391, 409, 426, 444, 451, 454,
470, 479, 538, 569, 575, 586, 601

B-17 Plankton Ecology

8, 15, 35, 45, 47, 55, 56, 60, 67, 80,
88, 117, 121, 129, 135, 137, 145, 151, 152, 154,
158, 171, 172, 182, 195, 201, 209, 212, 218, 221,
225, 230, 235, 238, 242, 261, 262, 269, 278, 279,
285, 301, 309, 310, 317, 318, 327, 339, 340, 348,
352, 354, 357, 365, 370, 389, 397, 399, 400, 401,
406, 437, 448, 485, 492, 497, 499, 512, 524, 527,
530, 533, 551, 559, 566, 577, 579, 583, 606, 608,
618, 623, 634, 635, 637, 639, 643

B-18 Population Dynamics

2, 10, 35, 49, 54, 55, 65, 71, 75, 88,
95, 99, 113, 132, 134, 141, 151, 154, 162, 163,
172, 189, 196, 201, 202, 205, 210, 234, 236, 238,
249, 253, 255, 267, 300, 301, 308, 318, 326, 335,
342, 363, 377, 383, 388, 393, 414, 416, 427, 433,
436, 452, 468, 473, 477, 482, 493, 539, 571, 578,
608, 612, 617, 621, 625

B-19 Productivity

35, 37, 48, 56, 113, 116, 121, 134, 138, 145,
146, 171, 172, 176, 184, 218, 251, 262, 278, 279,
280, 310, 318, 327, 343, 348, 354, 362, 364, 392,
397, 400, 403, 407, 416, 425, 428, 437, 472, 492,
524, 527, 530, 534, 540, 545, 562, 571, 595, 606,
623, 634, 635, 637

B-20 Vertebrate Biology

72, 93, 267, 274, 324, 452, 462, 464, 506, 593,
594

C Chemical Sciences

C-1 Marine Chemistry (general)

4, 8, 35, 42, 51, 128, 158, 169, 204, 257,
281, 301, 313, 330, 332, 333, 350, 351, 360, 363,
492, 537, 588, 597, 626, 630, 632

C-2 Biochemistry

22, 34, 35, 39, 40, 68, 115, 121, 269, 276,
283, 310, 306, 311, 391, 402, 408, 423, 432, 454,
496, 560, 577, 601, 643

C-3 Geochemistry

4, 36, 207, 276, 351, 529, 537, 539, 560

C-4 Hydrography

78, 127, 159, 372, 488, 521, 560, 578, 591, 606,
634

C-5 Inorganic Chemistry

48, 115, 351, 360

C-6 Organic Chemistry

35, 121, 246, 504, 529, 626

C-7 Pesticide Monitoring

15, 18, 70, 119, 156, 281, 302, 328, 363, 402,
488, 521, 571, 590, 596, 626, 635

C-8 Seaweed Chemistry

34, 171, 427, 577, 634

C-9 Water analysis

8, 15, 36, 59, 83, 150, 157, 169, 176, 177,
179, 183, 190, 246, 271, 273, 275, 281, 301, 317,
319, 322, 343, 350, 360, 363, 386, 402, 407, 425,
488, 492, 523, 524, 571, 584, 588, 591, 606, 615,
638

D Geological Sciences

D-1 Marine Geology (general)

11, 35, 180, 404, 412, 419, 424, 450, 516, 521,
537, 546, 558

D-2 Geochemistry

62, 219, 257, 363, 537

D-3 Geochronology

537

D-4 Geological Engineering

No personnel designated this area

D-5 Geomorphology

183, 215, 461

D-6 Geophysics

168, 183

D-7 Mineralogy

537

D-8 Sedimentology

11, 14, 35, 60, 61, 165, 180, 207, 215, 330,
331, 372, 412, 424, 434, 450, 453, 488, 516, 521,
537, 558, 591, 606

D-9 Subsurface Mapping

488

E Interdisciplinary

E-1 Environmental Monitoring

1, 8, 16, 51, 56, 59, 70, 84, 90, 96,
100, 101, 102, 116, 123, 130, 131, 136, 137, 140,
147, 149, 152, 157, 161, 168, 173, 175, 185, 191,
207, 215, 220, 232, 234, 245, 247, 252, 260, 265,
266, 267, 268, 270, 273, 294, 301, 309, 317, 318,
319, 322, 323, 329, 335, 336, 346, 347, 363, 367,
370, 378, 398, 401, 402, 406, 407, 416, 446, 452,
461, 477, 488, 492, 498, 504, 509, 512, 521, 524,
541, 546, 571, 584, 591, 603, 611, 615, 635, 636,
640

E-2 Oceanography

11, 24, 55, 62, 80, 97, 101, 103, 121, 129,
134, 135, 138, 150, 152, 168, 175, 180, 183, 212,
219, 244, 263, 269, 280, 291, 296, 303, 307, 317,
331, 362, 364, 386, 387, 406, 412, 415, 416, 424,
434, 442, 449, 450, 464, 481, 488, 489, 492, 498,

503, 519, 520, 535, 537, 548, 559, 585, 591, 606,
608, 628, 634, 641

E-3 Pollution Research

1, 4, 6, 7, 8, 18, 20, 25, 26, 28,
29, 30, 34, 35, 36, 38, 41, 50, 56, 61,
62, 63, 65, 68, 75, 76, 80, 83, 97, 101,
103, 112, 119, 120, 126, 130, 133, 136, 139, 141,
152, 156, 158, 166, 168, 171, 174, 177, 179, 182,
183, 185, 187, 191, 192, 196, 200, 203, 215, 219,
228, 230, 231, 232, 246, 250, 254, 257, 258, 266,
267, 268, 271, 272, 273, 278, 288, 301, 302, 311,
313, 317, 328, 329, 332, 337, 342, 350, 356, 357,
358, 359, 362, 372, 374, 375, 377, 379, 381, 382,
385, 388, 398, 401, 402, 406, 407, 408, 409, 411,
416, 422, 428, 439, 440, 441, 444, 446, 464, 480,
485, 486, 492, 493, 500, 504, 509, 514, 524, 529,
537, 546, 561, 569, 571, 572, 574, 577, 580, 584,
585, 587, 588, 591, 595, 597, 612, 621, 624, 627,
630, 632, 638, 639, 640

F Physical Sciences

F-1 Marine Physics (general)

264, 331, 363, 622

F-2 Electrical Properties

No personnel designated this area

F-3 Hydrodynamics

32, 50, 61, 168, 174, 194, 263, 296, 307, 337,
359, 489

F-4 Physical Engineering

1, 168, 174, 194, 200, 356, 387, 607

F-5 Physical Properties

159, 174, 175, 215, 280, 322, 622

F-6 Thermal Properties

96, 159, 174, 214, 215, 280, 318, 356, 363, 407,
453, 521, 524, 571, 585, 595, 640

F-7 Underwater Acoustics

52, 488, 498

G Related

G-1 Data Systems

28, 31, 75, 102, 144, 149, 159, 163, 214, 296,
320, 347, 358, 386, 415, 446, 449, 488, 603, 629

G-2 Environmental Legislation

30, 35, 120, 194, 215, 229, 294, 330, 336, 344,
349, 416, 457, 507, 509, 521, 577, 580, 589

G-3 Navigation and Seamanship

164, 334

G-4 Ocean Law

363, 416, 457

G-5 Simulation Modeling

6, 23, 26, 28, 37, 49, 50, 102, 121, 134,
150, 159, 168, 172, 208, 214, 253, 263, 307, 320,
337, 358, 363, 437, 473, 493, 512, 530, 534, 578,
613, 623

G-6 Teaching and Education

10, 28, 32, 39, 58, 63, 101, 111, 148, 168,
199, 200, 203, 204, 215, 217, 243, 251, 272, 301,
318, 326, 330, 337, 345, 356, 358, 387, 389, 419,
424, 428, 435, 489, 490, 509, 524, 542, 546, 548,
555, 564, 571, 584, 613, 622, 628, 634, 635, 639

G-7 Underwater Diving

7, 101, 119, 120, 183, 302, 330, 365, 383, 406,
407, 488, 524, 610, 640

G-8 Underwater Photography

101, 183, 365, 488

H Resource Utilization

H-1 Resource Economics

28, 52, 121, 174, 227, 356, 358, 383, 416, 456,
457, 486, 522, 554

H-2 Resource Management

9, 23, 28, 35, 52, 81, 84, 87, 107, 123,
131, 163, 208, 215, 227, 229, 252, 258, 265, 284,
286, 293, 300, 308, 318, 323, 329, 330, 336, 345,
356, 358, 363, 383, 402, 404, 416, 417, 419, 435,
446, 457, 488, 501, 508, 511, 521, 522, 524, 541,
546, 554, 563, 571, 573, 589, 591, 604

H-3 Resource Planning

28, 48, 52, 57, 79, 106, 126, 135, 140, 168,
174, 198, 199, 208, 215, 227, 229, 258, 265, 272,
318, 336, 356, 358, 363, 364, 366, 380, 383, 416,
446, 457, 488, 507, 521, 522, 524, 554, 563, 591,
611

Other (as specified)

Acarology

410

Administration

237, 424, 531, 631

Amphipoda

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Aquaculture

260, 272, 583

Benthic Biology and Ecology

211, 244, 384, 564

Bioassay Studies

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Bioenergetics

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Biological Erosion Control

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Biometrics

420

Cell Physiology

432

Civil Engineering

333

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79

Community Ecology

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Coliforms

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Conservation

417, 604

Consulting Engineers

640

Contamination

375

Crustacea

430, 442, 502, 620

Data Processing

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Deep Sea Biological Oceanography

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Dynamics of Artificial Reefs

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Economics

130

Embryology

447

Energy Budgets

280, 392

Entomology

33, 590

Entrainment Studies

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Environmental Impact Assessments

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Environmental Law

457, 604

Environmental Protection

337, 589

Estuarine Pollution Ecology

342

Ethology

374, 557

Extension Service to Seafood Industry

435

Fisheries Biology, Ecology and Management

108, 151, 178, 183, 189, 324, 374, 417, 447,
475, 506, 644

Gas Exchange Across Air-Sea Interface

613

General Ecology

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